RAILROAD MODEL CRAFTSMAN

NOVEMBER 1955

50 CENTS

DO-IT-YOURSELF HO

HO TRAIN SETS

HO LOCOMOTIVES

LAYOUT DESIGN

GETTING STARTED

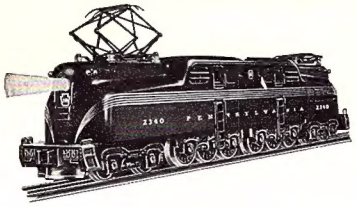
HO GAUGE SPECIAL ISSUE

HERE YOU HAVE THE LARGEST AND MOST COMPLETE SELECTION OF MODEL TRAINS IN THE NATION

1-Year Warranty on Lionel and American Flyer! Order now! All items guaranteed to reach you before Christmas!

LIONEL

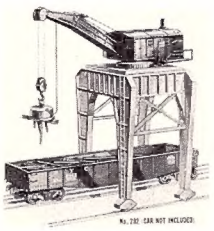
NEW 1955 ITEMS



GG-1 with 2-motors, horn choice of wine or green $43.50

Yard Goat Diesel Switcher, couplers on both ends 9.95

Virginian or Lackawanna F-M Diesel, 2 motors 34.95



Portal Gantry Crane

3-Lever Control

$15.95

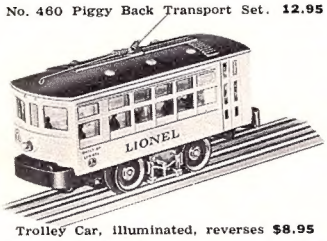
No. 110 Trestle Set 5.95

No. 155 Highway Signal with Bell. 5.95

No. 352 Ice Depot Set 15.95

No. 415 Diesel Fueling Station.... 7.95

No. 460 Piggy Back Transport Set. 12.95



Trolley Car, illuminated, reverses $8.95

No. 50 Section Gang Car..... 7.95

No. 3359 Double Dump Car..... 8.95

No. 6560 Crane Car 7.95

No. 6414 Auto Transport Car..... 8.95

O Gauge 45-degree Crossover..$3.50

027 45-degree Crossover..... 2.50

Rubber Roadbed, straight or curved, per sec. ..... .10

Cork Roadbed 3′ Curvable "O" Lionel per sec. ..... .60

Same, 027 or American Flyer, per sec. ..... .50

Gargraves Switches for Lionel each. 6.00

Century Switch and Controller, each. 10.95

Same switch, manual, each..... 6.95

Shawnee Express Passenger Set.... 38.50

Shawnee Fast Freight 41.50

Branch Line or Shawnee Loco & Tender ..... ea. 29.95

AMT Box Cars (5.50) 3.95

Auburn Pass. Cars (10.00 to $13.50) 8.95

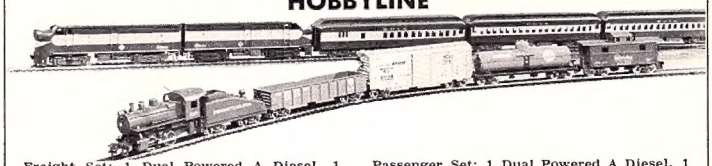
Bassett Lowke Turntable (19.75)... 17.75

Fleischmann 2-track Catenary ..ea. 1.49

Dinkyville Trolley 4.95

READY TO RUN HO TRAINS

HOBBYLINE



Freight Set: 1 Dual Powered A Diesel, 1 Unpowered A Diesel, 5 Freight Cars, Caboose, 12 curved, 8 straight track, Power Pack, Automatic Couplers. Choice of Pennsylvania Union Pacific or Western Pacific .....only **$39.95**

Passenger Set: 1 Dual Powered A Diesel, 1 Unpowered A Diesel, 1 Baggage Coach, 3 Coaches, 12 curved, 8 straight track, Power Pack, Automatic Couplers. Choice of Pennsylvania, Union Pacific or Erie .....only **$41.50**

Here is a REAL SAVING! The $10 POWER PACK is included FREE with the above specials!

VARNEY TRAINMASTER

Set contains 1 Dual Powered A Diesel, 1 Unpowered A Diesel, 8 Freight Cars, Caboose, 12 curved, 10 straight track, Power Pack, Automatic couplers, rerailer, buildings, etc. **$49.95**

TYCO SHIFTER SET

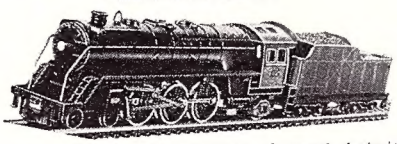
0-4-0 Steam Switcher and Tender, 3 Freight Cars, Caboose, 12 Curved, 4 straight track, rerailer, uncoupler, power pack.....only **$44.95**

AMERICAN FLYER HO

4-6-4 NYC Hudson Loco and with Smoke & Choo-Choo.. **$36.95**

Same loco in set with 3 freight cars, caboose and oval of track..... **$49.95**

FLEISCHMANN



Pacific 4-6-2 Loco & Tender, 3 Freight Cars, Caboose, 12 curved, 4 straight track, uncoupler .....only **$29.95**

SPECIAL with the above set! A $10 POWER PACK for only $5.00

Complete Fleischmann Catalog 50c postpaid

PLASTICVILLE HO BUILDINGS:

Cape Cod House or Ranch House.... .59

Colonial House, Switch Tower, Signal Bridge, 5c & 10c Store, Drug Store, Post Office, Police Station or Fire House. Your choice ..... .79

School House or Church 1.00

Passenger Station & Freight Platform 1.00

HO-350 Set of Fire, Police and Railroad Station, Ranch House & Fence.

HO-498 Set of Church, 3 stores, Post Office, 2 houses, Fence & Shrubs, Trees, Telephone Poles, all..... 3.59
all 4.98

125 Colorful HO Tunnel 1.49

Weston 6 Figure Freight or Passenger Set in Authentic colors.....ea. 3.85

Weston Fireman or Engineer....ea. .65

ATLAS SNAP TRACK PRODUCTS

to add to any of the above sets:

Straight Track: Full, 2/3, 1/3 or 1/6 sec. ..... .25

15″ Radius Curved Track, Full or 1/2 sec. ..... .25

18″ Radius Curved, Full, 1/2 or 1/3 .25

22″ Radius Curved, Full, 16 per circle ..... .25

Switches, Remote Control, R or L... 4.50

Switches, manual R or L 2.95

90° Crossing — $2.25; Track End Bumper ..... .49

Straight Terminal Track ..... .75

Girder Bridge w/straight track..... 1.75

3-conductor hookup wire 24′..... 1.25

2-conductor hookup wire 36′..... 1.25

Thousands of HO items in kit form to add to these sets. Send for our hobby catalog, free with any set.

AMERICAN FLYER

No. 4713 S.F. Diesels A-B-A.....$55.00

No. 326 Hudson, CC&S-W 40.00

18B 175-Watt dual Transformer... 26.50

No. 571 Truss Bridge 1.00

No. 590 Control Tower 2.50

No. 742 Reversing Hand Car..... 7.95

No. 779 Oil Drum Loader 12.95

No. 785 Coal Loader 14.95

No. 787 Log Loader 14.95

No. 977 Action Caboose 5.50

No. 916 Container Gondola 4.50

No. 926 3-dome Tank Car..... 4.95

Car Assortment, Nos. 911, 912, 916, 926 ..... 14.95

Car Assortment, Nos. 913, 922, 925, 931, 940, 947 ..... 19.95

Car Assortment, Nos. 921, 944, 945, 946 ..... 19.95

No. 720A R. C. Switches, pr..... 15.95

No. 722A Manual Switches, pr.... 8.95

No. 725 Crossover 2.50

Rubber Roadbed, str. or cur. ea.... .25

K771 Operating Stockyard & Car (4.95) 13.95

919 Operating Coal Dump Car (8.50) 7.50

974 Operating Box Car (8.50)..... 6.95

910 Chemical Tank Car (5.00).... 3.50

923 IC Orange Refrigerator Car (4.50) 3.95

933 White B&O Box Car (4.50).... 3.95

953R Red Club-Baggage Car (7.95). 5.95

293 4-6-2 Loco & Tender, S&CC (27.50) 21.95

336 4-8-4 Loco & Tender, S, CC&W (47.50) 37.95

343 0-8-0 Loco & Tender, S&CC (32.50) 25.95

3745 GP-2-Unit Diesel Switcher, W (39.50) 29.95

740 Operating Hand Car (7.95)... 4.95

778 Set of 3 Street Lights (2.95).. 2.29

5300T Miners Work Train (14.95).. 9.95

781 62-pc. Railroad Abutment Set (7.95) 4.95

782 48-pc. Railroad Abutment Set (6.95) 4.25

Send 25c for the 1955-56 catalogs of Lionel or American Flyer, Plasticville, Scenic materials, kits, track, figures, landscaping and bargain list.

SCENIC ACCESSORIES

New Plasticville:

Trestle Bridge .....$ 1.00

Gas Station 1.49

Bank Building 1.49

Independence Hall 1.98

Cathedral 1.98

Set of 10 Autos, Planes, etc. (1.50). .99

Landscape sheets, 50″ x 18″ Grass, Meadow, Earth, Cork, Ballast, Snow or Sand 1.00

Scenic Backgrounds, Farm, Town or Mountain, sheet 21x41½..... 1.00

Trees, 3″ to 5″ 6 per box..... 1.00

Trees, 5″ to 8″ 4 per box..... 1.00

Green shade, Orange, Apple, Cypress, Autumn, Spring, Snow or Assorted

Perma Scene for easy scenery, lg. bag 1.00

Grass, bag.. .50; Coal, bag .. .40

Ballast, bag. .35; Gravel, bag. .35

Earth, Minerals or Snow, bag..... .35

O GAUGE CUSTOM BUILT

2-rail unless otherwise stated:

2 Icken Pa. 0-1 Electrics, each...$225.00

1 C&O 1600 Allegheny, Lobaugh drivers 550.00

1 Lobaugh Pacific 149.50

1 Lobaugh Berkshire 189.50

1 Varney 10-wheeler 79.50

1 Erie F-3 A&B Diesel..... 125.00

1 NYC Niagara, Lobaugh drivers.. 245.00

1 Pa. M-1A Mountain 275.00

1 NYC 10-Wheeler 95.00

1 All-Nation Pacific 95.00

Icken Pennsylvania 4-4-2 Atlantic 275.00

S.P. Cab Forward 4-8-8-2 ..... 325.00

S.P. 4-8-2 Mountain 265.00

Lionel 700E N.Y.C. Hudson 150.00

Penna Suburban 2 Trailers 90.00

O Gauge Kits: 2 or 3 Rail

C&O Allegheny Kit 249.50

Hines Mikado 89.50

Lobaugh Greenbrier 146.00

Thomas Shawnee Express or Branch Line ..... ea. 29.95

Thomas Consolidated 46.00

Pennsylvania M-1A Mountain..... 159.50

Our Huge Inventory is a legend to Model Railroaders everywhere!

ORDER TODAY DEPT. G32

BLUM'S HOBBY HOUSE Inc.
800 Huron Road
Cleveland 15, Ohio

I have (check)

☐ Lionel O ☐ Lionel 027
☐ A.F. Link Couplers
☐ A.F. Knuckle Couplers
☐ HO ☐ Scale O ☐ ....

Please send me:

..... $.....
..... $.....
..... $.....
..... $.....

☐ Money Order ☐ Check Total.....

Post. and Ins.—40c up to $10.00. 65c over $10.00. Canadian Postage Extra.

Name .....
Address .....
City ..... State.....

☐ Enclosed 1.00 for Complete Hobby Catalog. 240 Illustrated Full Pages.

We Will BUY or TRADE Your complete railroad

LEONARD M. BLUM'S HOBBY HOUSE INC.

800 HURON ROAD CLEVELAND 15, OHIO

Vol. 24, No. 6 November, 1955

RAILROAD MODEL CRAFTSMAN

Including "The Modelmaker" (Est. 1924)
and "Miniature Railroading" Magazines

Special HO Gauge Issue

• THE CREW •

CHARLES A. PENN, *Editor and Publisher*

HAROLD H. CARSTENS
Managing Editor

E. K. WILLIAMS
Circulation Manager

C. CLARKE
Editorial Assistant

EDWIN P. ALEXANDER
Research Editor

Advertising Representatives

WEST COAST
JOSEPH MERVISH
6716 Gentry Avenue
North Hollywood, Calif.
Phone: STanley 7-7556

MIDWEST
SOL SHULMAN
2656 W. Summerdale Ave.
Chicago 25, Ill.
Phone: UPtown 8-4139

Contents

HO Gauge, A New Concept In Model Railroad Fun 13
HO, In The Beginning It Was Tinplate 14
What Is HO Gauge? 15
Some Facts About Locomotives And Kits 16
The New Gorre & Daphetid RR—First Photos by John Allen 17
MKT 0-8-0—First of Two Parts by Bill Schopp—Frames 20
Georgetown, Colorado—an HO Village by Lloyd Giebner 25
Couplings For Industrial And Trolley Switching—by Long Valley Ry. 30
Clockwork Trains By Bing Werke—by Case Kowal 34
Your Nabors Pike—Photos From Our Readers 38
Snap Track Layouts—by The Layout Doctor 40
Attaching Switch Throw Rods—by John Kemp 60

MKT 0-8-0 Plans In HO Gauge—by J. L. Knight ..... (3rd Cover)

Departments

Safety Valve 4
Coming Events and Club News 8
Dispatchers Report 10
The Test Track 46
Narrow Gauge Jct.-HOn3 49
Offn The Table Top—TT Gauge 56
Swappers Column 58
Dealer Directory 61

THE COVER: The beginner often finds difficulty in choosing between HO and O, or any other gauge. John Corrigan appears perfectly content and no wonder. He's happy with two F-7 diesels, one in each gauge.

Carstens photo.

ABOUT OUR ADVERTISING: We believe that every advertisement in this issue is backed by a responsible individual. Every precaution is taken to admit reliable firms only. To make doubly sure, we will make good any loss sustained by readers by trusting any irresponsible or misleading advertisements. Also, when called upon, we will adjust differences that may occur between readers and responsible advertisers. Readers will be fully protected except when due to honest bankrupts sanctioned by the courts. Notice of complaints should be sent to us within one month of transaction and to identify it, you should mention Railroad Model Craftsman when writing the advertiser.

Published monthly by Model Craftsman Publishing Corp., 1140 East West Highway, Silver Spring, Maryland. Editorial, Advertising and Circulation offices: Route 17, Ramsey, New Jersey. Charles A. Penn, President and Treasurer, Helen M. Penn, Secretary. Entered as second-class matter, August 14, 1953, at the Post Office at Silver Spring, Md., under the act of March 3, 1879.

Price 50c per copy; subscription $5.00 per year in the United States and Possessions. Canada, Foreign and Pan American Subscriptions $5.50 per year. The contents of this magazine must not be reprinted without permission.

Payment is made upon publication. Unless stated otherwise by contributor, we will assume no remuneration is expected. Copyright 1955 by Model Craftsman Publishing Co. Printed in U. S. A.

A Letter From The Publisher –

AGAIN this month I am in a nostalgic mood. If my memory serves me right, back in 1933 when RAILROAD MODEL CRAFTSMAN first saw the light of day on newsstands, there were eleven gauges in model railroading. Each gauge had its underlying advocates and they were all rampant with praise for one and condemnation of another. This was the famous "Battle of the Gauges," fought primarily in the Safety Valve department of RMC.

I must confess now that I encouraged this battle because it seemed to me to be the only way to clarify what then seemed to be a hopeless state of confusion. Apparently this Battle of the Gauges was just what was needed because we have settled down to a few practical gauges to meet the needs of everyone.

It would serve no good purpose to mention the many gauges that dropped by the wayside. Let them now be gathered as collectors' items. However, let us pay tribute to the infant of the battle who now stands highest among the victorious—HO Gauge.

MY good friend, John Tyler, whose Mantua line pioneered manufacturing HO on a production basis, sometimes likes to chide me by saying that I didn't favor this gauge in the beginning. Of course I know that John is kidding because I am sure that he couldn't forget that the most popular series of articles ever written on model railroading were from the pen of Eric La Nal about HO gauge. They appeared in RMC when this gauge was in rompers. Also, that RMC was the first magazine to devote a monthly department to the struggling HO and that Mantua was its first regular advertiser in one inch space (Stop your kidding John).

HO has certainly taken the leadership in railroad modeling and in doing so it has had a stabilizing effect on the industry. It has proven that good things can come in small packages. It has provided much more railroading in a given space and has acquired the production know-how that has brought the price range within the reach of a wider field of modelers.

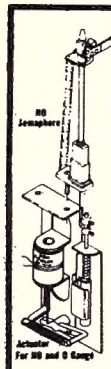
My engineer's cap is off to HO. However, let me hasten to add that I think there will always be other gauges to meet the demands of those who like them bigger or smaller. I can't conceive of the day when there won't be a big demand for that sturdy pioneer of the hobby—O Gauge. RMC will always cater to the O-gauger and lend a helping hand to other specialized gauges.

Charles A. Penn,
Publisher

Next Month –

DECEMBER always means plenty of model railroad activity and the big December issue of RMC will pack plenty in its pages. The Layout Doc has been busy for many months planning and building a new layout that's a humdinger. It's called the HO-PAC Lines and it'll spell many hours of pleasurable enjoyment for all who build it . . . Bill Schopp completes his husky MKT 0-8-0 and if you'll start building your frame now you can have it done for Christmas . . . We've got a special project lined up for you scale O gaugers, too, that'll bring your pike right up to date . . .

Use the subscription blank in this issue and you'll get your copy delivered fresh and early. Ed.



HO SEMAPHORE

WATCH THE LIGHTS CHANGE REALISTICALLY!

Completely assembled Actuator controls. Semaphore movement by means of current supplied through Trackside Switches installed by side of track and operated by Truck Shoe mounted on engine.

OPERATES CROSSING GATES TOO

Easy table top installation.

HO Semaphore Kit, w/Actuator	$4.85
HO Crossing Gates, w/Actuator	4.85
Actuator alone, assembled	4.25
Trackside Switches, w/Shoes, pr.	1.85
Block Switches, each	.85

See your Hobby Dealer **Send 10c for literature**

DON J. FOWLER
128 No. Aliment Dr.
Los Angeles 48, Calif.

FOWLER'S SLOW MOTION

Baldwin Model Locomotive Works

Mfrs. of Scale "O" gauge Locomotives & Precision Switches
See our September '55 ad

Information on Request

P. O. Box 1225 **Greenwich, Conn.**

TOM THE TELEGRAPHER
(Trade Mark) Patented

Only $2.95
A real 3 way Telegraph Instrument
No R.R. is complete without a telegraph

Send real code when train is running.
E-Z to learn code from your running train. Pat.

Herman Enterprises

P.O. Box 149 Copr. 1955 **Villa Park, Ill.**

Wants HO Outside Third Rail Shoes

Please advise me where HO outside third rail collector shoes may be purchased.

W. H. Sherwood
6815 Reseda Blvd.
Reseda, Calif.

• *Can any reader help? Ed.*

The One That Got Away

Bill Schopp's error (RMC Sep. '55 p. 19) of 6'10" equalling 70" seemed to put a lot of space between drivers. Did he ever make another of revised dimensions? How about more traction and interurban articles?

Ted Holloway
Spokane 11, Wash.

• *We've never seen a Schopp built 4-12-2. And more traction material is in the works. Thanks also to the many other readers who wrote in with the correct answer to Bill's Boo Boo. Ed.*

Narrow Gauge Memento

After reading about the Carson & Colorado in the Aug. '55 RMC, I went on vacation in northern California. While passing through the town of Independence I came on a section crew laying a short section of track in the little park at the north end of town. On inquiring, I found out that old number 8 which made the last run is to be set up there as a monument by the old timers of that area.

R. A. Latham Jr.
South Gate, Calif.

More Data On The F-7 and FP-7

I would like to jump into this F-7 story. Mr. Elliot Kahn (RMC Sept. '55 Safety Valve) said that the Globe F-7 may be an FP-7. The FP-7 is four feet longer than the F-7. The F-7 also has the train heating equipment. Also, the F-7 is the one with the higher gear ratio. The FP-7 has a ratio of 58:19 for a top speed of 89 mph F-7 has a ratio

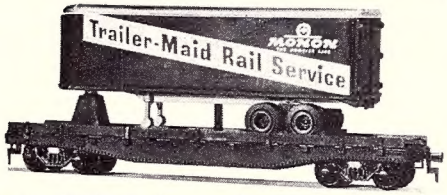
(Turn to Page 7)

for Christmas—better models in ½ the time!

with exclusive ULRICH HO Trucks

Maybe you're an expert HO man. Or maybe you're a beginner. Either way you'll appreciate a really beautiful model. That's ULRICH. And ULRICH's highly accurate, all-metal HO accessories can "make" your HO layout. You'll be proud of the excellent detail. You'll be pleased with ULRICH's time-saving *Fast-Fit* assembly—everything fits perfectly without filing! Look at these trucks—they come with pre-painted and lettered trailers. Buy them from your favorite dealer.

New! All-assembled piggy-back!



A unique new ULRICH original—ready-to-roll trailer mounted on flatcar. Comes already assembled with nylon wheel sprung metal trucks and automatic couplers. Give your layout this unusual touch! Road names: Kit PF1, B&O; PF2, SP; PF3, MONON. **Price $3.95.**

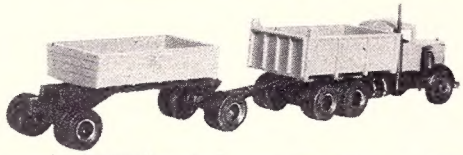
Kenworth-Fruehauf Rig

Like nothing else in HO! The rugged Kenworth tractor with 35 ft. Fruehauf van—king of the road. And all the close detail you expect in your ULRICH kits. Exclusive *snap-fast* assembly. Road names: Kit 1V2, PIE; 1V3, Garrett; 1V4, Denver-Chicago. **Price $2.50.**

Mack Rig — Just Introduced

Look closely. See those treaded wheels, that radiator detail? And those are working bogies, too. You'll need this new Mack truck to spark up depots, highways. Road names: Kit 2V1, RISS; 2V2, MID-STATES; 2V3, ASSOCIATED TRANSPORT. **Price $2.50.**

Kenworth Dump Truck and Trailer



Another popular ULRICH standard, great for adding an authentic trackside touch. Distinctive detail, with transmission, stack, removable trailer. Kit 1D. **Price $2:75.**

The complete ULRICH line includes gondolas, hoppers, flat cars, target signals. Sold only through dealers.

Unusual new Mack flat-bed truck coming soon!

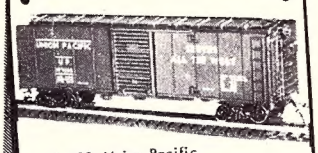
ULRICH *Model kits*

4233 Babcock, North Hollywood, California

FOR YOU! ROUNDHOUSE Products CHOICE SELECTIONS!

All Metal! Sprung Trucks! NMRA Couplers!
Economical too!!!!

BOX CAR - 40' METAL SHEATHED



B-100 Union Pacific
B-101 Nickel Plate Road
B-102 Southern
B-103 Illinois Central
B-104 Pennsylvania
B-105 Atlantic Coast Line
B-106 Frisco Lines
B-107 MKT, The Katy Line
B-108 New York Central
B-109 Central New Jersey
B-110 Chesapeake & Ohio
B-111 Elgin, Joliet & Eastern
B-112 CRP, Jersey Central
B-113 Monon, The Hoosier Line
B-114 Northampton & Bath
B-115 Maine Central
B-116 Canadian National
B-117 Maine Central

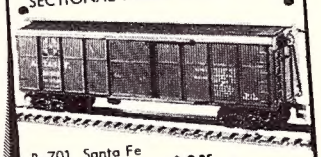
$2.35 ea.

STOCK CARS

S-100 Southern Railway
S-101 Union Pacific
S-102 Pennsylvania
S-103 Denver & Rio Grande
S-104 MKT, The Katy Line
S-105 New York Central
S-106 Santa Fe
S-107 Chicago, Mil., & St.Paul
S-108 Texas & Pacific
S-109 Missouri Pacific
S-110 Atlantic Coast Line

$2.50 ea.

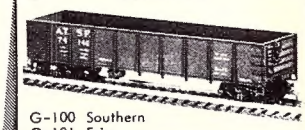
SECTIONAL WOOD SHEATH STYLE



B-701 Santa Fe

$2.35 ea.

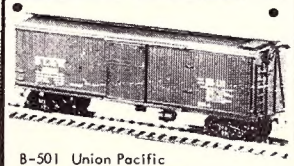
GONDOLAS



G-100 Southern
G-101 Erie
G-102 Norfolk & Western
G-103 Elgin, Joliet & Eastern
G-200 Santa Fe
G-201 Union Pacific
G-202 Illinois Central
G-203 Central of Georgia
G-204 Chicago & Northwestern
G-205 Michigan Central
G-300 Chesapeake & Ohio

$1.85 ea.

BOX CAR - 40' WOOD SHEATH TYPE



B-501 Union Pacific
B-502 Chicago & Northwestern
B-503 Florida East Coast
B-504 D & L.W., Lackawanna

$2.35 ea.

200 TON FLAT CARS

F-100 Pennsylvania
F-101 Chicago & Northwestern
F-102 Delaware & Hudson
F-103 New York Central
F-104 Westinghouse

$2.35 ea.

BOX CAR - HORIZONTAL RIB STYLE

$2.35 ea.

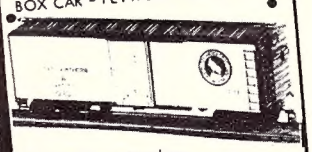
B-200 Milwaukee Road 'Olympian'
B-201 Milwaukee Road 'Hiawatha'
B-202 C.M. & St. Paul 'Olympian'
B-203 C.M. & St. Paul 'Hiawatha'

CABOOSES

$2.75 ea.

C-100 MKT, The Katy Line
C-101 Santa Fe
C-102 Pennsylvania
C-103 Rock Island
C-104 Chesapeake & Ohio
C-105 Missouri Pacific
C-106 New Haven
C-107 C & E I
C-108 Virginian
C-109 Norfolk & Western
C-110 Pere Marquette
C-111 Reading
C-112 Lehigh Valley

BOX CAR - PLYWOOD PANEL TYPE



B-601 Great Northern
B-602 Great Northern

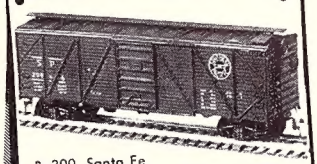
$2.35 ea.

SAND & GRAVEL HOPPERS

H-300 Roundhouse Products
H-301 St. Louis & Southwestern
H-302 Canadian Pacific

$2.95 ea.

BOX CAR - 40' TRUSS SIDE STYLE



B-300 Santa Fe
B-301 Seaboard Lines
B-302 Burlington Route
B-303 Northern Pacific
B-304 Southern Pacific
B-305 Louisville & Nashville
B-306 Missouri Pacific
B-307 Gulf, Mobile & Northern
B-308 Rock Island
B-309 Canadian Pacific
B-310 MKT, The Katy Line
B-311 Frisco Lines

$2.35 ea.

MINE, ORE HOPPER CARS

H-100 Great Northern
H-101 Soo Line
H-102 Chicago & Northwestern
H-103 Lake Superior & Ishpeming
H-150 Great Northern
H-151 Duluth, Missabe & Iron Range
H-152 Canadian National
H-153 Milwaukee

$1.75 ea.

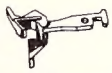
You need this: Data book.

For complete specifications of Roundhouse Products - plus - statistics, charts, information, railroad lore, etc., you should have the 'ROUNDHOUSE DATA BOOK'. We would like to send you a copy, and unconditionally guarantee satisfaction - plus. You have a 10 day examination return privilege - with money back guarantee! You'll never send it back - of course. There are purchase coupons with each DATA BOOK which can gain back more than the cost. DON'T BE WITHOUT A COPY.

Order a DATA BOOK today at only $ 1.50

Better than 'FREE'

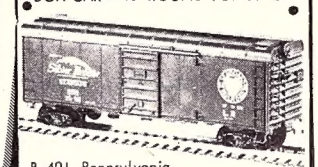
NMRA Couplers



CH-111 NMRA Couplers ..... 25¢ pair
CH-222 NMRA Couplers with Draft Gear ..... 40¢ pair
CH-333 NMRA Coupler Ramp ..... 25¢ each
CH-444 NMRA Coupler Springs ..... 15¢ doz.

Trade-in offer expires November 1st, 1955. Send for details today

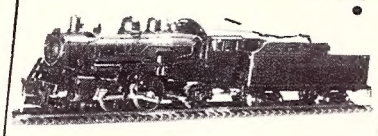
BOX CAR - 40' ROUND TOP STYLE



B-401 Pennsylvania
B-402 Bessemer & Lake Erie
B-403 Norfolk & Western
B-404 Seaboard

$2.35 ea.

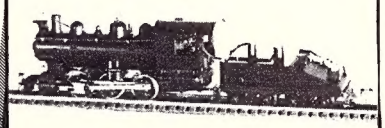
ATLANTIC



4L1 Roundhouse 4-4-2 Atlantic

$19.95 Complete Kit

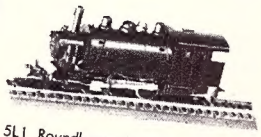
SWITCHER



2L1 Roundhouse 0-6-0 Switcher

$13.50 Complete Kit

YARDHOG



5L1 Roundhouse 0-6-0 T 'Yardhog

$10.50 Complete Kit

ROUNDHOUSE PRODUCTS ARE AVAILABLE THROUGH LOCAL DEALERS. IF OUT OF STOCK - THEY CAN GET THEM - OR - YOU MAY USE THE ORDER BLANK AND GET THEM DIRECT FROM THE FACTORY.

SEND REMITTANCE IN FULL - CHECK OR MONEY ORDER. Stamps are not acceptable for any amount. Please print or write name and address clearly. You may use your own stationary to write your order if you do not wish to mutilate your magazine by clipping order blank

MODEL DIE CASTING CO. 3811 W. Rosecranz Hawthorne, Calif.

Name..... Remittance enclosed: $

Address.....

City..... Zone..... State .....

Quantity	Description or Item Number	Price	Total

. . . the HOBBYIST'S SUPERMARKET of SUPER SAVINGS!

NEW AND OLD ITEMS . . . if available anywhere WE'VE GOT EM!

ALMOST **EVERYTHING** advertised in this magazine can be ordered from AHC

Use Convenient Order Blank

LOOK! Only AHC Gives You All These Terrific EXTRAS

1. 14 Day MONEY BACK GUARANTEE on unused purchases.
2. No Postage or packing charges for orders of over $2.00 (include 25c if order is under $2.00). We insure safe delivery ANYWHERE IN THE WORLD. Outside of U.S.A. (except APO & FPO) add 10% for postage (minimum 50c).
3. Membership in the "GOLDEN SPIKERS OF AMERICA," the club that keeps you up to date on railroading and SAVES YOU MONEY ON YOUR PURCHASES.
4. No "minimum" orders. Any order is welcome.
5. All orders processed in 24 hours. Mail addresses coast-to-coast airmail your orders to our N. Y. office for immediate shipment to you.
6. Most complete stock available in America. If it's advertised we can usually supply it.
7. Competent understanding of your problems.
8. 64 Page giant 2-color illustrated catalog FREE with every order.

MORE for your money

SATISFACTION GUARANTEED OR YOUR MONEY BACK

HO GAUGE

LOCOS & POWER UNITS

ATHEARN - GLOBE
R.D.C. (1, 2, 3 or 4) 14.95
R.D.C. Dummy—(1, 2, 3 or 4) 6.95
Santa Fe Globe F7 Dual Powered 14.95
U.P. F7 Dual Powered 14.50
F7 Dummy Units ... Unpainted
A Unit — 98; B Unit ..... .89
F 7 Assembled & Painted
A Unit 2.29; B Unit 1.89
Choice of: S.F., Pa., So. Pac.
F 7 Powered ... Kits A or B
I-Drive — 11.95; Dual Drive 14.95
F-7 Pwrd... Assembled A or B
I-Drive — 14.95; Dual Drive 17.95

BOWSER
Articulated 4-6-6-4 ..... 52.50
Pacific 4-6-2 with tender 32.50
Artic. Tender (Semi-Vanderbilt) 8.50

ENGLISH
Armbld. 1200 HP. Diesel Switcher 16.00
Alco Rd. Diesel, B-wl, dr. (A or B) 19.50
Alco Dummy Unit (A or B) 7.50
Pacific 4-6-2 ..... 19.95
Mikado 2-8-2 ..... 19.95
HObbyline Alco Diesel (pwrd) 12.95
Alco Diesel (dummy unit) 5.95
Yardbird 0-4-0 ..... 14.95

FLEISHMANN (Ready to Run)
Moqul 17.95
Pacific, with Tender 19.95
0-6-0 Loco 12.95

HOBBYTOWN
8 Wheel Drive for Globe F7 ..... 14.95
Alco 1600 hp. Rd. Switcher DC-71 ..... 24.95
Alco 1600 hp. Dual Drive Unit 6.00
Alco 1600 hp. 123K 27.50
Multi-Drive A Unit for 123K 13.95
Multi-Drive B Unit for 123K 12.95
Alco & EMC 2000 hp. 12 Wh. Dr. 29.95
Dummy B Unit E7 for above 10.95

Buried in This Ad are most of the new items. Sometimes there isn't time or space to list all of them. But, if available anywhere, we have it.

KEMPTRON
Pwr. & Ltng. Kit for Globe F7 ..... 15.95
14 Wheel Tender 19.95
Shorty Vanderbilt 7.50
Thomas Flyer 1907 ..... 14.95

LINDSAY
Power Truck Kit for Globe F7 ..... 9.95
Powertruck for RDC 12.95

MANTUA
Shark Nose Rd. Diesel A or B Unit 14.95
Shark Nose B Dummy 7.95
Shark Nose Dual Drive 9.95
Booster O-4-O 9.95
Shifter O-4-O 15.95
Valve Gear Kits 2.95
Assembled Valve Gear 4.95
Little Six 0-6-0 ..... 12.95
Big Six 17.95
Pacific 4-6-2 ..... 24.95
Mikado 2-8-2 ..... 27.95
Trolley 8.95
General or Rdhse. Goat — ea. 24.95

PENN LINE
Pacific K4 with Tender 34.50
Atlantic with Tender 29.50
Consolidation with Tender 32.50
Mikado LI 34.50
T1 Articulated 4-4-4-4 ..... 39.50
Midget Diesel Switcher 9.95
Midget Diesel Switcher Assem. 14.95
Decapod 34.50

PENNA. SCALE MODELS
PCC Street Car 16.95
IRR Street Car 22.50
IRR Trailer 12.50
Brill Suburban Trolley 17.95

PITTMAN MOTORS
DC 60 ..... 5.00 DC 80 ..... 6.00
DC 71 ..... 6.50 DC 94 ..... 7.50
DC 91 ..... 7.50

VARNEY
O-4-O Dockside 15.00
Brute Diesel A or B 15.00
Brute Diesel Dummy A or B 1.25
GM 1000hp Diesel Switcher 19.75
Casey Jones 10 Wheeler 18.00
Casey Jones with Tender 22.00
Drive Unit: Single 9.50; Double 14.95

MISCELLANEOUS
DC 60(12V.)Motor—Model Pike 5.00
DC Super Dyn. Accessory Motor 2.50
ROBICO Stubby 16.95
JERRY MARTIN Diesel Centricluteh 3.95
MODEL DIE CAST 0-6-0 ..... 13.50
MODEL DIE CAST 4-4-2 Atlantic 19.95
MODEL DIE CAST Yard Hog 0-6-0 ..... 10.50
WALTHERS Shuttle Jack 21.95

POWER PACKS-CONTROLS

MODEL RECTIFIER CORP.
Throttle "Pulse" Pack 10.95
Loco Pack 14.25
Dual Pack 28.75
Tri Pack 42.95
Model Meter Pack 24.50
Model Pack 21.75
Cab Control Unit 8.50
Model Adapter 9.25
Selenium Rectifiers: 2 Amp. 4.50
4 Amp. 6.45 6 Amp 7.95

AHC . . . the HOBBYIST'S SUPER MARKET of SUPER SAVINGS!

SCINTILLA
Throttle Control Handle ..... .75
Unipack 10.95
Electro Pack C (2 locos) 16.50
Electro Pack Sr. (3 locos) 21.45
Dynapack (5 locos) 29.95
Block Control 8.50
Multipack Sr. 34.75
Power Kits: ..... 2 Amp 13.95
4 Amp 18.50 10 Amp 22.95

MISCELLANEOUS
Pulse Pack (Levahton-Paiae) 14.85
Paige Pack (Levahton-Page) 29.50
Powerpacks: Varney, Hobbyline, Jon Herkimer ..... ea. 10.95
HO Rheostat (Ohmite MT-40) 5.65
Lever Action Rhea (Bob Pearce) 5.45
Circuit Breakers 3 or 5 amps. ..... .50
Jiffy Switch Controller 2.25
Acme Switch Controller ..... .98
0-6 or 0-20 DC Amp Panel Meter 3.00
0-15 DC Voltmeter Sq. Panel Type 3.00
TOGGLE SWITCHES:
S.P. ..... $ .70 DP-ST ..... .80
DP-ST ..... .95 SP-DT ..... .95
DP-DT center off position. Reverse 1.40
SP-DT mom. (1 hole mounting) 1.25

HO ROLLING STOCK

ATHEARN
BOX CARS ..... ea. 2.50
El Capitan: Grand Canyon; Scout Chief; Super Chief; ACL: C&AO: C&EI: C &NW: CN: CP; Erie: FEC: GM&O; GN: IC: DLAW: NP: Monon: NYNH&H:PM: RI: SAL; SP: UP.
40' SPECIAL BOX CARS ..... ea. 2.95
B&O Sentinel: B&O Time Saver: C&O Luminous: NYC Pacemaker; SP Overnight: Timken RF Red, Yellow or Silver; Western Pacific; MP Eagle; NCAST. L.: State of Maine.
50' AUTO ..... ea. 2.75
Super Chief: El Capitan: Scout: Grand Canyon: Monon; KCS; SSW; MKT; Chief A.T.S.F. Exp.
40' FLAT CARS ..... ea. 1.85
C & NW: Centralfld: Grand Trunk
50' FLAT CARS ..... ea. 1.95
Southern: U.P.: Erie
REEFERS ..... ea. 2.75
MDT: Ill. Central: Burlington: ART: NP Armour: FDEX: ART/MP: WFE;PFE: Swift: State of Maine.
Rd. Roof Cars; 40' Box ..... ea. 2.50
40' Auto ea. 2.65; 50' Auto ea. 2.75
DT&I; Pennsy; SAL; N&W
TANK CARS ..... ea. 2.50
Single Dome ... Mobilgas; SP Gasoline Svc; SP Diesel Svc; Union Pacific; Shell: Texaco: Roller Freight
TANK CARS (3 Dome) ..... ea. 2.75
Union Oil; UTLX; Deep Rock; Shippers
TANK CARS ..... ea. 2.40
Shorty ..... Atlas; Maanolia; Crystal
Wrecking Crane [Erie 200 Ton] 8.50
Pulpwood Car 2.25

AMBROID
G.N. Express or Unicel Reefer 3.50
Stock Car or BM Snow Plow 3.00
Watermelon Car 3.00
Open Platform Coach, Baqaage or Combination Car ..... ea. 3.95

AMERICAN BEAUTY
Available in: NYC, Penn, GM, IC, C&N
Observation Car 6.95
Baqaage: Mail Baqaage: Combination: Coach; Day-Night Coach: Roomette; Diner ..... ea. 5.95

AUTHENTICAST
Maqor Dump Car 4.95
Slaq Car 3.00
Depressed Center Flat Car 2.50

AYERS
Flat Car 2.25
Gondola 2.35
High Side Gondola 2.45
Hopper Bottom Gondola 2.55

CENTRAL LINES OLD TIMERS
1863 B. O. Baqqaqe 40' 2.90
1908 Observation (65' or 75') 4.80
OLD TIMERS ..... ea. 3.95
Va. & Truckee Combine 45'; 1898 Open End Combine 51'; 1898 Baqaage & Smoker 55'; CRR or NJ 50'; 1898 Open End Coach 50'; 1908 Archwindow Coach 65' or 75'; 1898 Business Car 55'; Wagner Sleeping Car: 1863 BO Coach 45'; 1863 BO Combine 50'; 1898 Baq & Mail 50 1886 Combine

HERKIMER (OK)
80' Astradome (streamline) 5.45
80' Observation (Streamline) 5.45
STREAMLINERS ..... ea. 4.95
Coach; Baqaaqe; Baqaaqe-Coach; Sleeper; Diner; Postal-Baqaaqe.
60' Astradome (Shortys) 4.95
60' Observation (Shortys) 4.95
60' STREAMLINERS ..... ea. 3.95
Coach; Baqaaqe; Baqaaqe-Coach; Sleeper; Diner; Postal-Baqaaqe.

HOBBYLINE
All Metal Combine (English) 2.95
All Metal Coach (English) 2.95
GONDOLAS ..... ea. 1.95
Wabash: Erie: P.R.R.: P.&L.E.: ACL: NKP or South Shore.
FLAT CARS ..... ea. 1.95
Reading; PRR; UP: GN; Soo; L&N.
BOX CARS ..... ea. 2.50
ACL: Can. Nat.: WM: DL&W; SP: NKP: PRR Caboose (Penn. or unlettered) 2.95

J-C MODELS
Observation Car 3.50
$2.95 ea: Silver Sides: NYC Postal: NYC Baqaaqe: Penn Baqaaqe; N&W Baqaaqe & Coach; NYC Baqaaqe & Coach; Penn' & Coach Lounge; N&W Coach; NYC Coach; Baqqaqe; N&W Coach; NYC Coach; Penn Coach: Penn Modernized Coach: 12 Sec. Pullman; NYC Diner ea. 2.95

LACONIA
Sierra Combine 3.25
Reefers: Dry Ice, Cent. Vt. Milk, Rut. Milk, Chat. Mar. Wine ea. 1.75
Ralston Purina 2.25
Penna. 70 Ton Hopper 1.50
Penna. Mill Type Gondola 1.50

PASSENGER CARS ..... ea. 2.75
Pullman Std. 80'; 12 Sec. Sleeper; C&O Coach 80'; NYC Combo, Baqqaqe & Smoker 80'; 12 sec. Std. Pullman "80': Std. 80' Coach; Std. 80' Comb. Baqaqe-Smoker
REEFERS ..... ea. 2.50
Goetz Beer: Maine Potatoes: Tivoli Beer: Bullfrog Beer; Columbia Soup; Merchants Biscuit; Kraft Cheese; Peerless Beer; Libby's Pickles; Page Milk

MAIN LINE
50' Reefers --- less tks. --- ea. 2.95
Express—Renkens Milk; PFE Sheffield Farms; Penn Exp; Milw; Basic (rd.rf.) unpainted; G.N.; N.P.; Basic (flat roof); Manasha
36' Reefers --- less tks. --- ea. 2.85
Pvt. Owner—Chrisco: Decker Meats: NRGC Bananas; Budweiser. Palace Poultry Car --- less tks. --- 2.75

MANTUA
GONDOLAS ..... ea. 2.25
Penn.; UP; B&O; R.I.
STOCK CARS ..... ea. 2.25
A.C.L.; M.K.T.; M.P.
BOX CARS ..... ea. 2.25
W.M.; G.M.&O.; G.A.; M.C.; M.K.T.; G.N.
Flat Car 1.75
8 Wheel Caboose 3.50
4 Wheel Bobber Caboose 1.95
Streamline Coach or Combine ea. 4.95

NO MINIMUM ORDER

14 Day FREE Examination WITH FULL MONEY BACK GUARANTEE!

Any unused item purchased from us can be returned in 14 days for complete refund or exchange.

ORDER NOW! GET ALL THE AHC "EXTRAS"

SILVER STREAK
BOX CARS ..... ea. 2.95
Minn & St.L; Savannah & At; Frisco Minn. Mining; Union Pac; D&R GW Auto
REEFERS ..... ea. 2.95
AT&SF; Green Bay & West; Oscar Mayer; Swift; No. Pac.; MDT (NYC); C.&.R. Gondola 2.75
Gondola ..... Nickleplate 2.75
WORK CARS ..... ea. 2.95
Penn.; Commissery; Supply; Engineering
CABOOSE CARS ..... ea. 3.25
B&O; So. Pac; Un. Pac; 4 W1 Bobber Bay Window; MP Drovers; Combination Caboose Cars ..... ea. 3.50

ULRICH
COMPOSITE GONDOLAS ..... ea. 2.50
Rock Is; Jersey Cent; Lehigh Valley; Penna; Erie, & West; Hi Top. & Santa Fe
GEN. SVC. GONDOLAS ..... ea. 2.90
So. Pac; Un. Pac; Col. & So. Burling-ton; Utah Coal Route; Great Northern; Minneapolis & St. Louis
OUTSIDE BRACED BOX CARS ..... ea. 2.90
So. Pac.; Penn.; Marquette; Boston & Maine; Great Northern; Del. & Hudson; At, Top & Santa Fe; Den. & Rio Grande; L.&.N.
OUTSIDE BRACED CATTLE CARS ..... ea. 2.75
Chicago; St. Paul; Minn. & Omaha; At. Coast Line; Penn; Chicago & N-western
WOOD SIDE BOX CARS ..... ea. 2.50
Texas & Pac; Delaware; Lack. & Western
FLAT CARS ..... ea. 2.25
Nashville; Chat. & St. Louis; So. Pac; Texas & Pac; Canadian Pac; St. Louis; Southwestern; Soo Line
HOPPER CARS FLAT END ..... ea. 2.90
Del. & Hudson; Leh. Valley; Reading; W.M.; Penn
HOPPER CARS FLAT END ..... ea. 2.90
Santa Fe: B&O: Rock I. Louisville & Nashville; Mo-Pac; NYC; Erie: Frisco Track Cleaning Car
Norfolk & West. Peaked End Hopper 2.90

VARNEY
STREAMLINE PASS. CARS ..... ea. 3.50
B&O Coach; UP Coach; Penn Comb; Penn Coach; Penn Coach; SP Coach; Ill. Central Comb; Ill. Central Coach; Great Northern Coach, Great No. Combination
STREAMLINE PASS. CARS ..... ea. 3.50
Penn Observ; SP Observ; Ill Central Observ; Great Northern Observation
40' FLAT CARS ..... ea. 1.90
Pa., S.P., A.T.S.F., NYC, No. West
TANK CARS ..... ea. 2.50
Sinclair; UTLX; Texaco; GATX, ATSF, Koppers or Carbide & Carbon ea. 2.75
REFRIGERATOR CARS ..... ea. 3.35
Maine Potato; Can. Nat'l; Burlington; NYC (MDT); Gerbers Baby Foods; No. Pac; St. Louis "Reefer"; Wabash Flag "ART"; Santa Fe "El Capitan"; Pac. Fruit Exp.; Old Dutch Cleanser; Blatz Beer; Fairmont Butter; Carnation Milk; Pabst Beer, Schlitz Beer.
COVERED HOPPERS ..... ea. 2.35
Monon; NYC; N&L Plate; Pa; Del & Hud.
HOPPER CARS ..... ea. 2.35
Virginian; Penna; Burlington; So. Pac; Chicago & E. Ill; Central of Georgia
GONDOLA CARS ..... ea. 1.90
Penna; So. Pac; Den. & Rio Grande; Rock Is.; Ed. & E.
BOX CARS ..... ea. 3.50
B&O "Time Saver Svc"; Penn "Merchandise Svc"; Mo. Pac; Frisco Fast Freight; MKT Katy; West. Pac "Feather"; NYC "Pacemaker"; NC & St. Louis "Dixie-land"; Santa Fe "Super Chief"; Un. Pac. Buffalo Creek; West India Fruit

WALTHERS
PUG PASSENGER CARS ..... ea. 5.45
Postal; Baqqaqe; Combine; Coach; Diner; Pullman—(Specify Red or Green) Observation (Red or Green)
STD. PASSENGER CARS ..... ea. 4.75
80'—12 Sec. Pullman: 8 Sec. Pullman: 6 Sec. Pullman: Pullman 13 Room; Solarium; Diner; Diner (M Roof)
80' Observation (M Roof) 1 ris. 5.25
80' Observ. (M Roof) less tks 5.25
60' Baqaaqe (Arch Roof) 1 tks 4.35
70' Baqaaqe (M Roof) less tks 4.35
60' Postal (Arch Roof) less tks 4.35
COACHES, COMBINES ..... ea. 4.75
70' P-B Combine (A or M Roof): 75' Combine (A or M Roof): 75' Coach (Arch or Monitor Roof).

MISCELLANEOUS
Tractor & Trailer Rig (Ulrich) 2.50
Mack Rig (Ulrich) 2.50
Dump Rig (Ulrich) 2.75
Shorty Caboose (M.E.W.) 2.95
Dynamometer Car [Devore] 5.95
Mew Log Buggy 2.50
W&T Track Cleaning Car 8.50
Ribbon Rail Track Cleaning Car 4.95
Model Wood Lumber Kits: Kit A 2.95
Kit B 3.95 Kit C 5.95

HO CAR PARTS

COUPLERS
Rail Line NMRA std. couplers..pr. ..... .35
Rail Line (above) w/dr. gear..pr. ..... .50
Rail Line Uncoupling Ramp ..... .35
Varney Dummy ..... .10
Varney Dummy w/draft gear ..... pr. .15
Mantua Freight ..... pr. .25
Mantua Freight (metal cars) ..... pr. .25
Mantua Passenger ..... pr. .50
Mantua Uncoupling Ramp ..... .50
New Varney Automatic (Steel) ..... .50
New Varney Automatic (Brass) ..... .50
New Varney Ramp ..... .15
Kadee Coupler Ht. Gauge 1.00
Kadee — #0 w/Draft Gear ..... .50
Kadee Uncoupling Ramp ..... .25
Kadee Control Button 1.35
HObbyline Couplers (Plastic) ..... pr. .25

TRUCKS
Mantua Talqo Pass. ..... pr. 1.95
Mantua "Talqo" Truck ..... pr. 1.25
Varney or English (Nylon) ..... pr. .50
Silver Streak (Metal) ..... pr. .85
Mantua Bettendorf ..... pr. .75
Athearn Bettendorf, Arch Bar or Andrews Types ..... pr. .85
Athearn Symington ..... pr. 1.00
Athearn Buckeye 6 Wheel ..... pr. 1.95
Cent. Valley Fox Type 30 Ton 1.10
Cent. Valley Fox Type 40 Ton ..... .10
CV Arch Bar Short Wheelbase ..... .85
CV GW Riveted or Cast Frame 1.95
CV 4W Riveted Frame, Standard or Streamliner Types 1.65

BRAND NEW GLOBE CARS

KITS .98
Unpainted. Coach or Baggage Mail

KITS 1.29
Unpainted. Vista Dome or Observ.

KITS — DECORATED 1.98
Pa. or S.F. Coach or Baggage Mail

KITS — DECORATED 2.29
Pa. or SF. Vista Dome or Observ.

HO TRACK PRODUCTS

ATLAS
Curvable Track 3 Ft. Section ..... .75
Switch Kits, 4, 6, 8-LH or RH 3.95
Assembled Switches 1.95
Single Crossover 6 LH or RH 3.95
Double Crossover, Assembled 11.95
3 Switch Ladder 3, 4 LH or RH 5.95
90 Deqree Crossing 1.75
45 or 60 Degree Crossing 2.25
18 or 30 Deqree Crossing 2.50
Rail Joiners, Brass ..... .50
Plastic Insul. Rail Joiners 12 ..... .15
Cork Roadbed or Switch Blocks ea. ..... .05
Tie Strip ..... 25 Ft 1.50
Switch Tie Strip ..... 10 Ft 2.00
Double Tie Strip ..... 10 Ft 2.50
HO Brass Rail ..... 99 Ft 3.95
Snap-Track ..... Straight 9" Sections, or Curved (15", 18" or 22" Rad.) ea. .25
Auto. Snap Switch R.H. or L.H. 4.50
Manual Snap Switch RH or LH 2.95
Bumper ..... 49 Control Box ..... .60
Girder Bridge 1.75
90° Snap-Crossing 2.25
Terminal Sect. Snap-Track ..... .75

FLEISHMANN
Rigid Track, Straight or Curved 15" radius sections ..... ea. .15
10" or 24" radius sections ..... ea. .20
Manual Switches ..... pair 5.95
Remote Control Switches ..... pair 9.95

MANTUA
Asmbld. Switches 3, 4, 6, 8 LorRH 1.95
3-Way Switch 9.95
Terminal Connector ..... .50

PEARE
Flexible Track — 3 ft. ..... .75
Switch Kits: 4, 6, R or L 1.95

TRU-SCALE
READY-TRACK
Straight 2' lengths $1.00; Curved 16", 18" & 20" radius ea. .75; Full circle $6.00
Switch Kits ..... ea. 1.25
MOUNTED TURNOUTS — TIED ROADBED ..... ea. 3.35
Hi-Speed, 4, 6, 8 ..... RH or LH
MOUNTED CROSSOVERS — TIED ROADBED ..... ea. 5.95
Hi-Speed Wye, 4, 6, 8 ..... RH or LH
Scissor Crossover 4&6, RH or LH 17.95
Hi Sp. Dbl. T'nout #4, RH or LH 10.95
MOUNTED CROSSINGS ..... ea. 2.95
45°, 60°, 90° ..... ea. 2.95
14°, 28° ..... ea. 3.25
ROADBED, WOOD — TIES—PLAIN
Straight ..... 3 Ft. ..... .45 ..... .33
Superflex ..... 3 Ft. ..... .72
Spiral Easements, R&L, pr. ..... .80
Bridge Stock ..... 18 in. ..... .40
Switch Blocks, Any Size ..... .65 ..... .45
X-over Bloc. Any Size ..... .85 ..... .55

COMPLETE CIRCLES
14" Radius ..... 1.90 ..... 1.45
16" Radius ..... 2.15 ..... 1.65
18" Radius ..... 2.40 ..... 1.85
20" Radius ..... 2.65 ..... 2.00
22" Radius ..... 2.90 ..... 2.20
24" Radius ..... 3.15 ..... 2.40
26" Radius ..... 3.40 ..... 2.60
28" Radius ..... 3.65 ..... 2.80
30" Radius ..... 3.90 ..... 2.95
32" Radius ..... 4.15 ..... 3.15
34" Radius ..... 4.40 ..... 3.35
36" Radius ..... 4.65 ..... 3.55

FOWLER SIGNALS
Semaphore & Actuator 4.85
Crossing Gates & Actuator 4.25
Actuator 1.00
Track Side Switch Incl. Shoe 1.95
Block Switch " ea. ..... .95

HO MISCELLANEOUS

SWITCH MACHINES
Challenger ..... (Pioneer) 3.50
Klick ..... (Pioneer) 1.35
Polaris (Exposed or Concealed) 2.25
Tu-Jet 1.50
Walthers TS-5 ..... 1.95
Lindsay Switch Motor 2.95
Lindsay Mini Switch 1.95
Kadee 2.25
Kurtz Kraft K4—1.50; Economy ..... .98
Indian Head 1.50
M. E. W. Ground Throw 1.75
Best Friend Switch Controller 1.50
Kurtz Kraft K5 ..... 2.50

SWITCH STANDS
2 Green and 2 Red ..... .75
2 Amber and 2 Red ..... .75
M.E.W. Hi-Level ..... .90

MARKER LAMPS
Caboose Lamps 1 Gn. 1 Red pr. ..... .60
Caboose Lamps 3 Am., 1 Red pr. ..... .60
Loco Lamps 2 Green, 2 White pr. ..... .60
Switch Std. Lps 2 Gr. 2 Rd or ..... .60
" " Stand Lps 2 Am. 2 Red or ..... .60
Gaunt Track Gauge ..... .25

TOOLS
Gaunt Track Gauge ..... .25
Mantua Track Gauge ..... .40
Caboose Height Gauge ..... .35
M. E. W. Track Gauge ..... .35
Varney Track Gauge ..... .30
NEW Mr. W. Track Layer 1.25
Gaunt Spiker ..... .75
Lindsay Magnetic Rail Spiker 3.35
Mantua Rail Bender ..... .35
Varney Re-Railer ..... .25
Varney Permanent Rerailer ..... .69
Clock Oil ..... .25 Spindle Oil ..... .25
Valvespout No. 3 Precision Oiler 1.00
Scale Ruler (HO) Steel ..... .45 and .65
12" HO Scale Ruler 1.00
Drill Set No. 61-80 w/Index Stand 6.50
Double End Pin Vise 1.00
Dbl. End 4 Chuck Pin Vise 1.50
Swiss Needle Files (Set of 12) 3.60
Screw Driver Set (5). Plastic Cs. 1.80
Zona Saw 1.00
Jeweler's Saw 1.39
Solder Iron (Midjet) 1.49
Glue Gun Plastic .50: Metal ..... .75

MISCELLANEOUS
M. H. P. Diaphreams ..... pr. ..... .65
HO Ballast, Gravel, Grass, Earth, Coal ..... .60
Scenic Sand ..... ea. ..... .35
Tracklayer Spikes ..... .60
Spikes (Offsett Hd.—Steel) pkqe. ..... .50
Slide Switch ..... .25
Kurtz Kraft Semaphore 2.25
Kurtz Kraft Crossing Gate 1.95

BLDGS. & STRUCTURES

TURNTABLES
Ideal 10.95
Rabico Gallows 3.50

ALEXANDER
Country School 3.50
Tunnel Portals (PRR, B&O, N&W) 1.15
Dbl. Tunnel Portals 1.50
Water Tank - $2.95 Coaling Stn. 6.95
Pillar Crane & Dock 2.95
Freight Station 2.95
Oil Tank and Rack 2.25

ARGY SPECIALTIES
Mail Pouch Tobacco Barn 1.95
Switchyard Tower 4.50
Grand Junction Box Works 3.25
Swift Meat Packing Plant 3.65
Fruit Growers Exchange 3.25
Purina Chows Feed Mill 3.45

AYERS
Mission Style Station 1.90
1887 Passenger Depot 2.25
1888 Freight House 2.95
Cooling Twr. 1.10; Water Tank 2.25
Mission Cafe- 2.75 Lumber Yard 4.25
Union Ice Co. 4.25 Old Town 4.95
Icing Platform Extension 2.10
New Diesel House 4.95
Modern Factory 2.25
Deck or Thru Timber Bridge ea. 3.30
Timber Trestle 3.75
Old Town Lodgings 3.75
Freight Platforms 1.25
2 Modern Stores 1.25

PLASTICVILLE, U.S.A.
6 Evarts Trees ..... 10 Post Office ..... .79
Fence & Gate ..... .25 S & 10c Store ..... .79
12 Telephone Poles .45 Super Mkt. ..... .79
House Kits (Cp, Cod or Ranch) ea. ..... .49
Kits (Pet. Sta. or Dr. & Hdw.) ea. ..... .79
Fire House ..... .79 Church 1.00
Passenger & Freight Station 1.00

J. STEWART PRODUCTS
Automatic Car Washer 2.45
Diesel Oil Tank & Pump House 1.95
Diesel Sand Tower 1.10
Diesel Fuel Oiler ..... .75
Diesel Water Column ..... .60
Watchman's Shanty 1.00
Nite & Day Water Heater Co. 4.25
Interior Details ..... 2.25 Lighting ..... .95
3 Stall Roundhouse 5.25
Extra Stalls 1.25
No. 1 Furniture Factory 3.75
No. 2A Machine Wks. Dbl. Bldg. 4.25
#2B Machine Wks. Single Bldg. 3.25
#3 Northside Tool & Die Co. 3.75
#4 Mine Buildings 5.25
Warehouse - $3.75 Engine House 3.95
Penn Police ..... 2.95 ... Sawmill 4.85
Grain Elevator 3.75
Blk. Bart Mine 1.95
Red Lake Mine 2.75
House-Cream, Lt. Green, Rose 2.25
Shelter: Open or All Season ea. ..... .95

MISCELLANEOUS
Girder Bridge (Authenticast) 2.00
Signal Bridge (Authenticast) 1.75
Curved Timber Trestle (star) 5.95
Old Time Timber Tunnel Portal 1.50
Stone 4 Arch Bridge 2.50

FIGURES—ACCESSORIES

AUTHENTICAST FIGURES
Crosswalk Scene ... 1.89 Farm Set ... 1.89
Fire Fighting Set ... 2.50 Rd. Signs ... 1.89
Flat Car Loads ... 2.50 Accid. Grp ... 1.89
Bus Stop Scene ... 1.89 Figs., Signs ... 1.59

TRU-SCALE
SCENIC BACKGROUND ..... ea. 1.00
Farm Scene: Town Scene: Mountain, ***TREES, INDIVIDUAL*** ..... 6 for 1.00
Green Shade Tree: Cypress Tree; Orange Tree; Apple Tree; Spring; Autumn Tree
SHRUBS AND MISC.
Hedges (Flowered or Plain) ..... .98
Plants or Bushes (Flowered) ..... .98
Imitation Grass, Earth or Lichen ..... .98
Landscape Kits 9 pc. .98: 19 pc. 1.95
Flowers Climbing ..... .98
ORNAMENTAL FLOWERS ..... 6 for 1.00
Red; Yellow: Blue; Green; Mixed Red & Green; Mixed Yellow & Green; Assorted

CEMENTS & LIQUIDS
Plasticote #410M. ..... .29
Ambroid ..... .30
Goo (Walthers) ..... .50
Model Cement ..... .10; .15; .25
High Ball Spray Black 1.29
Track Cleaner or Loco Smoke ea. ..... .98

LOOK

TT GAUGE FANS
Room does not permit complete listing of TT equipment. Among the lines handled: H-P PRODUCTS (catalog 10c); GANDY DANCER (catalog 35c); Ahl Co. Road Bed (free catalog); JEWEL, etc. All items in our new catalog.

FLOQUIL RR. COLORS ea. ..... .45
Engine Black; Reefer White; Caboose Red; Tuscan Red; Box Car Red; Roof Brown; Reefer Green; Reefer Yellow; Reefer Orange; Pullman Green; Coach Green; Earth; Flash; Diesel Maroon; Diesel L. Green; Diesel D Green; Diesel L Blue; Diesel D Blue; Flat Varnish; Tuscan Red SM; Diesel Gloss; Flat Varnish Diesel Purple; Silver; Copper; Gold; Brass; Glass
Dio-Sol Thinner ..... 25 8 oz. Can ..... .65

410 M.R. COLORS ea. ..... .45
Flat Black; Box Car Red; Reefer Yellow; Reefer Orange; Tuscan Red; Clear Gloss; Pullman Green; Coach Green; Caboose Red; Roof Brown; White; Blue; Grey; Box Car Green; Tank Yellow; Socony Red
Thinner (2oz.) .30 Thinner (8 oz.) ..... .65

BOOKS
Atlas Track & Layout ..... .10
Operating Manual 2.00
How To Wire Model RR. (Wescott) 2.00
" To Run Mdl. RR (Boomer Pete) 2.00
Model RR: Emerson, Dalzell & Otto 2.00
Track and Layout (Kalmbach) 2.00
Prac. Guide to Model RR" 2.00
Introd. to Scale " (Wescott) 1.25
Fun with Model Railroads ..... .15
Model Cars & Locos 1.00
How to Wire Supplement ..... .75
Small RRs. U Can Build 1.00
"Automatic Control" or Couplers ..... .50
Track or Freight Car Design 1.00

MFG. CATALOGS
Mantua Encyclopedia ..... .35
Walther Catalog or Bob Peare ..... .50
Penn Line, Model Die Casting ... ea. ..... .25
Marklin or Authenticast ..... .35
Varney, Athearn, Hobbyline, Tru-Scale, Selley, Suydam, Feller, Ayres, Ulrich, Pioneer, Summit, Model Rectifier, Kemptron, Silver Streak, Fleischmann, Alexander; Ambroid, Binkley, Weston ea. .10

PARTS: We carry extra and factory repair parts in stock. Send today for the parts you need to keep your equipment in "tip-top" shape.

HOW TO ORDER

Send payment in full. No stamps, no C.O.D.'s.

Address your order to us at the branch office nearest to you:

AMERICA'S HOBBY CENTER

Dept. C-115 156C West 25th St., New York 1, N. Y.
Dept. C-115 55C E. Washington Street, Chicago 2, Illinois
Dept. C-115 Rm. 230C, 742 Market St., San Francisco 2, Calif.

ORDER NOW! GET ALL THE AHC "EXTRAS"

NO MINIMUM ORDER • NO MINIMUM ORDER

WE DUPLICATE ANY OFFER made by any other advertiser. Attach ANY ad to your order—and take advantage of the AHC "extras."

READ THIS ENTIRE MAGAZINE FROM COVER TO COVER ALMOST **EVERYTHING ADVERTISED CAN BE ORDERED FROM AHC.**

Branches Coast-To-Coast

AMERICA'S HOBBY CENTER, Inc.

1931 **24th YEAR** 1955

America's Largest Source of Models & Supplies

AHC RAIL BARGAINS

HO GIRDER BRIDGE 98¢ pr.

HO SIGNAL BRIDGE 98¢

SUPER SAVINGS

BRUSHES $3.00 VALUE 20 for $1.00 Asstd.

Control Panel & Track Diagram INDICATOR LAMPS 4 for $1.00 10 for $2.00

DC60 MOTOR 12 Volt. Permanent magnet. Made in U.S.A. Reg. $5.00 3.00

HO SWITCH MACHINES Positive spring toggle action. Completely assembled. A real buy at only 98¢

TERRIFIC VALUE

STATION SCENE 22 Pieces "HO" $1.00

ROAD GANG SET . . . HO 50c

COUNTRY STORE SET - HO 50c

FINEST IMPORTED HOBBYIST PLIERS 75¢ ea. Choice of Long Nose Side Cutting or Square Nose. Precision made with knurled handles.

Order Your NOEL CENTRAL RAILROAD Equipment from AHC See MODEL RAILROADER'S feature article December 1955

NOEL CENTRAL

HUOT CASE Reg. $6.50 61-80 Carbon DRILL SET 4.50

READY-TO-RUN HO SCALE TRAIN SETS

ATHEARN:
"Inter City" Set 19.95
"Limited" Set 29.95
"Super Express" Set 34.95

PENN LINE:
Set 5501 24.95
Set 5502 29.95
Set 5503 34.95
Set 5504 39.95
Set 5505 44.95
Set 5506 49.95
Set 5507 64.95

VARNEY:
"Mighty Midget" Set 29.95
"Diesel Freight" Set 29.95
"Trainmaster" Set 49.95

GILBERT HO:
Set HO-310 27.95
Set HO-320 39.95
Set HO-330 49.95

HOBBYLINE:
Set 416 or 421 ea. 24.95
Set 411 29.95
Set 446 34.95
Set 451 41.50
Set 456 or 461 ea. 44.95

HERKIMER OK:
Set 101 29.95
Set 102 39.95
Set 103 49.95

TYCO:
Set T-1 24.95; w/Pack 33.95
Set T-2 27.95; w/Pack 36.95
Set T-3 36.95; w/Pack 44.95
Set T-5 44.95; w/Pack 53.95
Set T-6 or T-7 ea. 62.50

FLEISHMANN:
Set 1000/2A 13.95
Set 1340/2 24.95
Set 1325/3 28.95

ORDER YOUR SET FROM AHC

We have them ALL! Space does not permit a complete listing . . . but if available anywhere, we've got it!

TURN PAGE FOR MORE AHC SUPER BARGAINS AND HANDY ORDER FORM

SAFETY VALVE — REMARKS FROM THE READERS

Continued from page 4

of 56:21 for a top speed of 102 mph. Both engines may be had with lower ratios if the railroad wants them. The FP-7 was designed for heavy passenger and fast freight. The F-7 with lower gear ratios are for freight and with higher gear ratios for fast passenger.

In closing, I feel that diesels from road to road are as different as steam engines were.

Lawrence Jackman
Salina, Kansas

X2075890315 Is A Crummy Number

I've got a question. A few days ago I was leafing through back issues of RMC when I came across a letter in the June 1952 Safety Valve. It stated that the writer was impressed by the high number he had seen on a model of a GN caboose in the Dec. 1951 issue.

Then I remembered seeing the same number on a caboose in the April issue of another model magazine. What goes. Is there such a prototype? The road number is X2075890315.

B. Arenberg
Walkill, N. Y.

● *Gadzooks! The Silver Streak caboose which you are questioning was built by Robert Hegge and was lettered with model railroad decals. Decals come with odd, lengthy combinations of numbers so that they may be cut apart in many combinations of two, three, or four numbers, suitable for most conditions. Occasionally a builder will have to cut individual numbers apart for special models. And, on rare occasions, the modeler, like Mr. Hegge, will just cut out a whole strip of numbers and mount them on his car, resulting in the astronomical sum of twenty billion, etc. Few roads go over four digits on cabooses and many stick with three, occasionally using the prefix C-. The New York Central, and Chicago & North Western are two exceptions using five digits. Ed.*

Swappers Lament

I have a complaint to make in regard to the Swappers Column, plus a suggestion. Over the last three or four months I have answered a number of the ads yet in only a few instances have I received the courtesy of a reply. I feel that an advertiser has the responsibility to answer all replies he receives in answer to his ad and especially so when a stamped self addressed envelope is enclosed, even if he isn't interested or doesn't need your merchandise.

So, may I suggest that you include a line in your "conditions" reminding advertisers of their responsibility.

Karl C. Henkels
Chicago 47, Ill.

● *A very good point, especially when a return envelope or postcard is included. Ed.*

He's Right, The DS Is Wrong

The Tucson, Cornelia, & Gila Bend Railroad is not a freight only line (See Dispatcher RMC Sep. '55), according to the latest Official Guide, which shows No. 2 leaving Ajo at 5:30 AM and returning as No. 1 from Gila Bend at 8:15 AM, daily except Sunday. My old Equipment Register lists motors 7 and 41, and caboose No. 15, as passenger equipment.

Probably nothing else could have aroused me sufficiently to write, but it's the railroad I've decided to model and I've got a real soft spot for it. My only regret is that lack of time and conditions prevented my getting more pix back in 1953 and that my intended trip over the line last December did not materialize.

Incidentally, Gila is pronounced he-la and Ajo is pronounced ah-ho, and a passenger can ride the 44 miles between the two. The Dispatcher's Report is entitled to a mistake once in a while and no criticism is intended. It's the first thing I read each month and supplies a lot of news not available elsewhere.

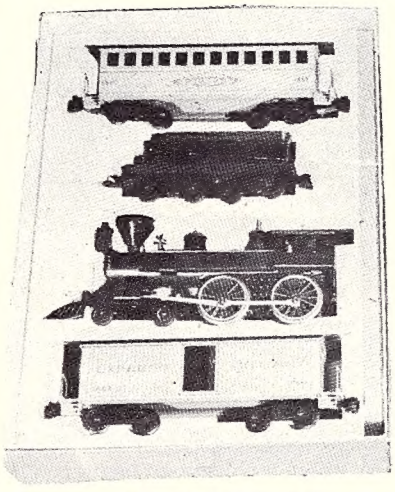
George Yohe
Rutherford, N. J.

● *Reader Yohe is right. The TCG does operate two mixed trains daily, one in each direction. Our information lists motor "41" as actually "401". The line owns about 140 freight cars, mostly class LO concentrate cars. Ed.*

THOMAS

Old Time Train Sets

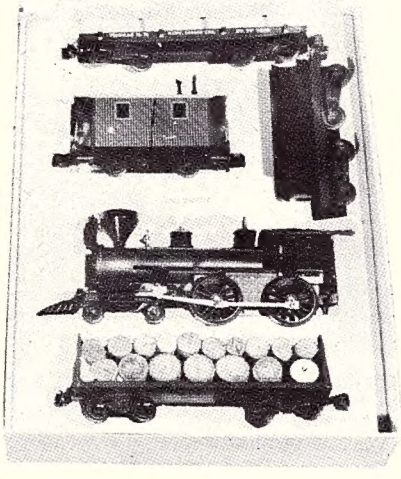
3 rail tinplate match Lionel



the SHAWNEE EXPRESS

Here's the train that has all the glory of the Old West. Set includes powerful all metal American Type locomotive with tender, open end Pioneer Coach, and authentic flat roof baggage car. Overall length of train 35½".

READY TO RUN **$39.50**



SHAWNEE FAST FREIGHT

A husky gleaming black American Type locomotive with tender powers this fast freight. Cars include pulpwood car with real load, flat car, and single truck caboose, all in authentic colors. Caboose has brass jeweled marker lights.

READY TO RUN **$43.50**

THOMAS INDUSTRIES
Shawnee, Okla.

SAFETY VALVE

A Graff-ic Viewpoint

Allow me to also come to the rescue of Bill Schopp who is murderously slandered in the pages of RMC (Sep. '55 Safety Valve).

Schopp is 100% correct as he usually is. Tenders on old locomotives do not seem to match on the footplate level. It took me quite a few years to find the answer, which agrees with Mr. Schopp exactly. The central portion of the cab is countersunk, often very considerably, and the throttle jerker and fireboy (when he got the chance) ride on an elevated side platform.

I know whereof I speak, having built one or two old timers, and having drawn up a couple or three more.

Now, when getting to the subject of narrow gauge, the central platform sometimes gets so low that the crew often have to have their shoes resoled due to dragging them on the roadbed. Fact is, Southern Pacific estimates a saving in brake shoes on the Owenyo branch of 1,500 dollars per year since crews often stop their train simply by dragging their heels. Unfortunately this saving is almost exactly offset by a similar cost in fuel consumption due to exactly the same cause.

U. B. "Don" Graff
San Jose 28, Calif.

Nylon Gears and HO Couplers

The Dispatcher asked for the opinion of readers (RMC Sep. '55 p. 8) as to their point of view on several subjects. Please let me express the general feeling of my customers. Personally, we feel the same way.

Nylon gears: Fine, with limitations. Two nylon gears running together are not desired. Better, a metal worm gear riding on a nylon worm wheel. Also in many cases the axle should be knurled deeper when nylon gears are installed rather than metal gears.

As for the coupler situation: It's been cussed and discussed many times. Many modelers prefer no couplers in their kits. However, such kits currently sell for the same price as comparable kits with couplers. Why?

Another idea: Why not a pre-painted all-metal box car kit with all markings leaving room for the modeler to put on his own roadname, date of construction, and herald.

Don Grant
Spokane 1, Wash.

Looking For A Forney El Engine

With the demolition of New York's 3rd Avenue El, some of the boys are trying to save the old mail combine No. G. that had been used as a collection car. I am concentrating on the other end and am trying to locate one of the old forney steam types formerly on the line. I'd appreciate any info on the prototypes. These engines were wheel arrangement 0-4-4T coal burning and may have the name "Manhattan" cast into the cylinders. Does anyone know?

J. M. de Rozario
1708-76th St.
North Bergen, N. J.

MODEL RAILROAD TIMETABLE

COMING EVENTS

EAST ORANGE, N. J., Nov. 5. 1:30 PM—12:00 PM.Essex Connecting Railroad club exhibition of their HO layout. Admission 25c for all. Basement, First Reformed Church, corner Halstead St. and Main St., East Orange.

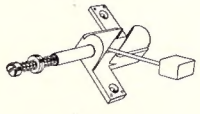
CLUB PUBLICITY CHAIRMEN: Items for this column for January issue insertion must be received at Ramsey, N. J. not later than Nov. 10. Items for February issue insertion must be received not later than Dec. 10. Items not having time value will be inserted in earliest possible issue. Be sure that your copy is correct.

PHILADELPHIA, PA.: Phila. Model RR. Club, Inc., operating the Philadelphia Belt Line railroad and the Delaware Valley Electric Railway, both O gauge, welcome new members. Operating nights. First Friday, Third Monday. Headquarters in the B&O Station, 24th & Chestnut Streets, Philadelphia. Ask for John Derr.

WESTFIELD, N. J., Nov. 18-20, 25-27, Dec. 2-4. Annual show of the Central Jersey Model RR Assn. Inc. Large O gauge railroad and trolley line in operation. Fri. 7-9 PM, Sat. 2-5. Admission adults 35c, children 25c. 135 Elm St., Westfield, N. J.

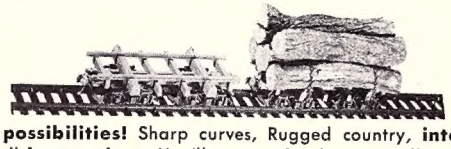
NEW LITERATURE

ALLIED RADIO CORP. 1956 CATALOG. 324 pages lists 26,000 items; largest catalog by any electronics distributor. Listings include Hi-Fi, amplifiers, rectifiers, transistors, toggle switches, relays, transformers, rheostats, plus other items suitable for model railroad control work, sound effects, public address systems, intercom, etc. Catalog is FREE. Allied Radio Corp., Chicago 80, Ill.



INVESTIGATE

Logging as a theme for a small layout.



Check MEW Switch Stands for small layouts, they're **Cheap,** Easily installed, **Positive.** From—**65c.**

Lots of possibilities! Sharp curves, Rugged country, **interesting cars,** small **locomotives.** You'll want a Suydam sawmill too, it's big business. **Car** and **Caboose Kits** "HO" from **$2.50.**

Die cast Standard Gauge wheels available, several types. Write direct, discount to dealers and repair men.

MEW's policy:—Always patronize your dealer, if unavailable order direct. Literature sent for stamped addressed envelope, Dep't MC.

MODEL ENGINEERING WORKS

BOX 261 *"Unique Miniatures"* **Monrovia, Calif.**

AHC Money Savers

SAVE! PEA LAMPS
12 Volt with leads. Choice of: Red, Green, Amber or White.
6 for 98¢

LOOK! special bargain offer

Here's the bargain-gift offer that had us swamped at Christmastime! Now . . . in answer to your many requests and letters—"Operation CHRISTMAS GIFT" continues. It's the most tremendous bargain ever. LOOK SEE! It's the most tremendous bargain ever. LOOK SEE!

GIFT NO. 1 COSTS YOU ONLY **25¢** with every order of $5.00 or over.

HERE'S WHAT YOU GET:

AHC 5-in-1 Track Gauge • Fishplates • AHC Track Cleaner • 2 AHC Terminal Connectors • Parts Box • Tube of Cement • 32 Decals HO Right of Way Signs • HO Manual "GUIDE TO MODEL RR"

GIFT NO. 2 COST YOU ONLY **50¢** with every order of $10.00 or over

You Get Everything in **GIFT #1 . . . PLUS**

AHC All-Gauge Track Plan Designer • 2 Artist Brushes #1 & 2 • 6 HO Farm Animals.

GIFT NO. 3 COST YOU ONLY **75¢** with every order of $25.00 or over

You Get Everything in **GIFTS #1 and 2**

PLUS . . . Set of 7 RR. Paints • Set of 12 Jewelers Files • 50 Ft. Hook-Up Wire.

WE MATCH ANY OFFER

AHC matches any offer made by any other advertiser. Attach ANY ad in this issue to your order — and take advantage of the AHC "extras."

FAMOUS "AHC"
SOLO-PACK
With Pulse Power. One Train Power Pack.
SALE **8.95**

TRIO-PACK
For 2 or 3 Trains
$25.00 VALUE
17.49

HO SIGNAL SPECIALS

Fully Assembled & Painted. Beautifully Detailed. Complete with Bulbs.

SEMAPHORE $1.75
DWARF TYPE: 1 Lite .65 2 Lite 1.00 3 Lite 1.25 4 Lite 1.50 5 Lite 1.75
TARGET TYPE
1 Lite 1.25 2 Lite 1.50
INDICATOR TYPE
2 Lite 1.50 3 Lite 1.75

MORE FOR LESS AT A.H.C.

FLEXIBLE "HO" Brass TRACK

50¢ Per 3-foot Section

25 SECTIONS FOR $10.00
Accurately detailed — solid brass rail on heavy gauge fibre tie strip. Meets our own (and N.M.R.A.'s) specifications. NO MINIMUM ORDER!

TOGGLE SWITCHES

DPDT (for reversing) **39c**
3 for $1.10
6 for $2.00
SPST 29c
DPDT Center off 98c

CORK ROADBED

Flexible . . . easily curved to match your track layout. Comes beveled for realism. NO MINIMUM ORDER.
3-Ft. Section **30¢**

"HO" SWITCHES

Completely assembled. 4, 6 or 8 RH or LH. All brass . . . made to N.M.R.A.'s rigid specifications. The smoothest operating switches you can buy. NO MINIMUM ORDER.
6 for $7.50 **1.50 ea.**

HO BRASS RAIL 99 FEET
495' for $9.95 **$2.50**

ORDER NOW! Get all these AHC "EXTRAS"

RED HOT BUYS

SUPER SAVINGS

	SALE		SALE
Set of 7 Rr. Paints, 1 each of all popular colors. 1/6 oz. bottles. Reg. 89¢	.69	AHC Track Plan Designer w/16 curves, crossings, etc. Reg. $1.50	1.00
AHC 5-in-1 Track Gauge, metal. Reg. 35¢	.25	Set of 6 HO Farm Animals, unpainted. Reg. 70¢	.35
Switch Controllers complete with 2 colored G.E. bulbs, etc. Reg. 98¢ each	2/1.59	AHC Plastic Parts Boxes. Transparent with hinged tops. 1¾ x 2¼ x ¾" high. Reg. 15¢ each	6/.50
HO Right of Way Signs. Sheet of decals with 32 Rr. yard signs (10 different kinds). Reg. 30¢	.15	0-20 DC Amp Meter, panel mount 2¾" w/bracket. Reg. $3.00	2.00
Imported Swiss Screwdriver Set (6) Nos. 0-1-2-3-4-5. Colored heads for identification. Reg. $2.25	1.49	AHC Track Cleaner, keeps track bright. Reg. 25¢	.15
HO Figures (24) passengers, train crew, station crew, etc. 6 each—unpainted. Reg. $1.50	1.15	Imported Swiss Pattern Jeweler's Files: ½ round, flat, oval, knife, square, 3-sided, equalling, barette, flat, oval, triangle or diamond, ea.	.35
English Nylon TRUCKS, close-out special. Reg. 50¢	5/1.00	Set of 12 (above) in wood box w/sliding plastic cover	2.50

HO CAR KITS

COMPLETE WITH NYLON TRUCKS

Any Six Cars for $5.00 **98¢**

Compare these car kits with any on the market! A real bargain value at a bargain price. They're complete in every detail with printed, scored or embossed sides, metal parts such as ladders, steps, brake wheels, etc., etc. Full sized plans included.

PLEASE ORDER KITS BY NUMBER

REFRIGERATOR	BOX CARS	FLAT CARS
(1) PLUTO WATER	(7) M.K.T.	(13) L. & N.
(2) BABY RUTH	(8) WABASH	(14) C. & N.W.
(3) HORMEL FOODS	(9) G.T.W.	(15) MILWAUKEE
(4) M.T.D.	(10) T & P	
(5) GREEN BAY	(11) M.P.	ALL 15 CARS FOR ONLY **$11.95**
(6) A.R.T.	(12) C. & E.I.	

Above Kits with SILVER STREAK Metal Trucks $1.25
Any 6 for $6.95 All 15 for $15.49

LOOK! We'll PAY YOU

to send for our
NEW 64 PAGE CATALOG

NO . . . we're not "crazy." We want every reader of this magazine to have a copy of our brand new catalog . . . and we're willing to pay for it. See our sensational offer! The 2-color catalog is exclusively HO and TT "RAILS" . . . over 5000 items, fully illustrated . . . with pages and pages of informative data, charts, etc.

Send only 50¢
For Our New Jumbo Catalog & Get a
$1.00 CREDIT
refundable with your next order

SUPER BARGAINS!

FREE FREE AHC "BARGAIN BULLETIN"
Lists dozens of big bargains. Send a self-addressed, stamped envelope today for your FREE copy.

AAR BETTENDORF
All Metal Sprung Freight **TRUCKS**
Reg. 90c **50¢** pr.

SOLDIERS! SAILORS! MARINES!
Orders placed through us get special attention. We understand your problems and take special care of your orders. No postage or packing charges on orders for over $2.00.

CANADIANS & FOREIGN MODELERS!
You save plenty by ordering from us. We accept your currency at market value. Canadian - $1.05; Sterling - $2.70; N.Z. - $2.35; Australian - $2.00; Philippine Peso - 33¢; etc. Add 10% for postage and packing (minimum 50¢).

MORE FOR LESS AT A.H.C.

CALLING ALL N. Y. CITY and metropolitan area MODELERS

156 West 25th Street, New York 1, N. Y.

VISIT OUR FABULOUS "HOBBY CITY" in the heart of New York
Everything under the "modeling sun" . . . under one roof. If it's available anywhere in the world, you'll find it here. Choose from the world's largest stock - including the smallest engine parts.
EXPERTS ON HAND AT ALL TIMES . . . THEY'RE HERE TO HELP YOU!

SUPER SAVINGS

ALL ORDERS PROCESSED IN **24 HOURS**

SAVE TIME!
USE THIS HANDY ORDER FORM

Branch offices, conveniently located coast-to-coast, airmail your orders to our N. Y. headquarters for immediate shipment.

GUARANTEED
Safe Delivery
Anywhere in the WORLD

Copyright 1955, America's Hobby Center, Inc.

HOW TO ORDER

Send payment in full. No stamps, no C.O.D.'s. Address your order to your nearest AHC branch office. Include 25¢ extra if order is under $2.00.

AMERICA'S HOBBY CENTER

156C West 25th St., New York 1, N. Y.
55C E. Washington Street, Chicago 2, Illinois
Rm. 230C, 742 Market St., San Francisco 2, Calif.

Please RUSH me the following:
PLEASE PRINT

NOTE: Branch offices (Chicago and San Francisco) airmail your orders to our N. Y. headquarters for immediate shipment.

Name _____

Street Address _____ Amount Enclosed _____

City _____ Zone _____ State _____

☐ **Gift #1** I enclose 25¢ and this order for $5.00 or over. ☐ **Gift #2** I enclose 50¢ and this order for $10.00 or over. ☐ **Gift #3** I enclose 75¢ and this order for $25.00 or over.

Page	Quantity	Name & Description of Items	Cost Each	Total
			Total	

24 HOUR SERVICE AT ALL TIMES **DEPT. C-115**

RS-1 410M FLAT BLACK $1.39
The same 410M flat black that has been the leading model railroad paint for 8 years. Can be used on Acetate Plastics and is **hot fuel proof.**

RS-22 METAL PRIMER $1.39
Vinyl base zinc chromate, gives perfect adhesion to all metals. May be painted over in 10 minutes.

MS-3 CLEAR GLOSS $1.29
Same material as our Marine Spar Varnish. Gives a hign gloss over any paint and is **hot fuel proof**

MS-3F CLEAR FLAT $1.29
Same material as above. For sealing decals and to even textures of painted parts.

Sold at your hobby shop

410M is a weatherproof vinyl coating, ideal for outdoor wrought iron.

Reusable, detachable spray head — 15c.

stewart/lundahl co.

7342 Fulton Avenue, North Hollywood, California

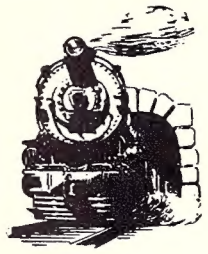
LAYOUT PLAN SERVICE
HO REPAIRS
(Specific inquiries invited)
List of built up HO engines for stamp.
WILLIAM SCHOPP
445 S. Logan Ave. Trenton 9, N. J.
Phone OWen 5-2202

MAKE YOUR SON
an
ENGINEER

3 PC. JUNIOR ENGINEER OUTFIT
With real railroad heralds
SIZES 3, 4, 5, 6 **$6.95**
SIZES 7, 8, 10, 12 **$7.95**
LIONEL AND AMERICAN FLYER HERALDS INCLUDED FREE

DEALERS
WRITE FOR WHOLESALE PRICES

GEO. ROSENFIELD
274 NO. BROAD ST. ELIZABETH, N. J.



DISPATCHERS REPORT

HO GAUGE is the theme of this issue of RMC and we hope that it will answer questions which you beginners have been asking. There is little question but that HO gauge is growing in popularity in this country and most major manufacturers will undoubtedly have extensive lines of HO gauge in production within the next five years.

With this we are certainly not spelling the swan song of the other popular gauges. O gauge is enjoying a rebirth of popularity long overdue and there is a constant parade of new products being made in all gauges. OO gauge fans are now receiving delivery of full scale Budd rail cars. It may well be that HO gauge is not for you. If you don't like it because of size or any other reason, by all means try the other gauges.

Hurricane Diane

Hurricane Carol passed by harmlessly enough in the east although it did cause extensive damage along the Southern coast line. Hurricane Diane was somewhat worse, bringing with it floods such as hadn't been seen since 1936. Yardley, Pennsylvania, was severely hit with flood waters coming within a few hundred feet of the Alexander tinplate museum. In Trenton, Sam Skean, with three helpers, were using buckets to pour out the water rushing through the basement windows, endangering his fine HO pike. We've had reports of other model railroads in New England which fortunately escaped the storm's wrath but undoubtedly many model pikes were lost or completely ruined. Incidentally, the Test Track (RMC July '55) gave details of an insurance policy for model railroads which would have provided complete coverage against such a flood.

Railroads were hard hit by Hurricane Diane with both the Lackawanna and Erie having bad washouts, as well as the Boston & Albany and the New Haven. West Shore fans were treated to an unending parade as Lackawanna and Erie freights were rerouted over this New York Central route. They carried their own crews plus a New York Central pilot. Quite a sight seeing foreign trains where they are never otherwise seen.

Those Old Days

The old Dispatcher heartily enjoys a comfortable chair, a good pipe, and perhaps a glass of brew, along with the pleasant companionship of other model rails. And when that companionship is in the form of old time modelers there is bound to be some reminiscing and comparison of old time kits with those of today. One such discussion came up just a few days ago and with it mention of the castings once available under the name Crovan. These were made by Minton Cronkhite and another gent whose name at the moment escapes me. Perhaps some reader remembers.

Those old time kits in O gauge weren't so bad detailwise but you had to be a good craftsman to get them together. Today many of these old time kits are still available but today the machine work is usually factory finished so that you have a minimum of drilling. Many O gauge kits are as easy to assemble as HO kits and of course there are ready to roll cars in O gauge just as there are in HO.

What's New

From Fred Schorr, a Budd Rail Car for OO gaugers by mail order only. . . . From Perma Bilt new S gauge freight cars, also suitable for O-27 tinplate users . . . Hi-Ballers Corporation now shipping their old time flat roof cars with monitor type roofs. A train consisting of a flat roofed coach and two railroad roofed coaches should be an eye catcher and suitable for even present day backwoods operation . . . Enhorning supplied many of the diesels for GM Powerama in Chicago. Maybe this show will give S gauge a good boost . . . From All Nation, sides for two new boxcars in their 40' steel AAR line. These are the colorful green C&IM and another green car for NPRR . . . At least two HO manufacturers of all metal locomotives now bragging about that fact . . . Rail Line has released an uncoupling ramp for their NMRA type couplers. Made in jet black plastic . . . some new kits include: Suydam's new corrugated metal HO grain elevator, nicely proportioned replica of a building that sometimes is too big . . . LW Models HO line of non-revenue cars. Pennsy fireman Bob Russell, of Union, N. J., a real HOer, says that they look just like the ones on his road. They come in yellow, red, and gray . . . Tower Engineering have tubular bulbs which are especially good for strip lighting, as in passenger cars or buildings. Almost resemble fluorescent lights.

Swapper's Column

We hope that you've made use of the Swapper's Column. Many readers have found it invaluable for obtaining scarce discontinued items or for disposing of unneeded equipment. We do hope that all people who place ads acknowledge mail sent to them by sending a postcard to the model rails answering their ads . . . Latest count on ready to roll HO manufacturers placed at 14 . . . Tru-Scale's new painted and ballasted track really beautiful in appearance. HO only . . . There's increased activity in TT gauge, too, with all metal freight cars now available. Glyn Lewis' column elsewhere in this issue will be carrying the details.

Fred Collins, Jr. and Jack Pivirotto, new editor and publisher, respectively, of the Pittsburgh Model Club "Consist" . . . Kramer Brothers 1956 catalog for dealers ready soon, contains about 300 items including planes, boats, and crafts, in addition to railroads.

On The Carpet

In Bill Schopp's article on the Pennsy Style 4-4-0 in the June issue, the price of channel frame, as sold by Special Shapes, was given at 40c an inch. This is incorrect. The correct price is 11c an inch. We regret any inconvenience this may have caused.

Model railroad casualty list, continued, and these are not from Bill Schopp, to whom all things have happened. Hal Carstens takes credit for these: reaching around in back with your left hand for spikes while laying track and knocking over somebody elses prize express refrigerator car. Ducking under framework and coming up for air too soon, and conking his head on a low cellar beam. Who has more?

A new custom building service is offered by Ken Kidder, of San Francisco. He offers four months delivery on any item in any gauge which you may want. The models are hand made in Japan, are largely of sheet brass construction . . . Our own Bill Schopp now a Bermuda shorts addict.

At Baltimore a Convention

National Model Railroad Association's 20th Anniversary brought together 600 model rails from all over the United States, Canada, and the Canal Zone. It was a good convention. Baltimore railroads cooperated warmly with the Baltimore Society of Model Engineers, convention hosts. 25 private home layouts were open for inspection Thursday evening. Both the Bell Telephone Hobby House and the Baltimore Club layouts were open on Friday night.

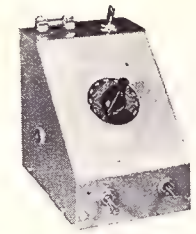
The railroads went all out to provide a tremendous Railroad Progress Display at the Produce Terminal. On exhibition were the oldest and newest in railroad equipment including a Pennsy Piggy Back flat car, Ma & Pa old No. 28 with several old passenger cars scheduled for early scrapping, and a number of other units.

Actually, we didn't get to the convention until Saturday morning, thanks to the publishing deadlines which wait for no one. The Pennsylvania's crack "Washingtonian", headed by a smooth running but dirty GG-1 took us down without any effort Consequently we missed the morning boat trip which was one of the convention highlights. The boat was an old icebreaker, built in 1878 and still boasting it's original engines. Steam fan Roger Ramsdell later briefed us on the intricasies of nautical power; Rodger having inspected the boilers.

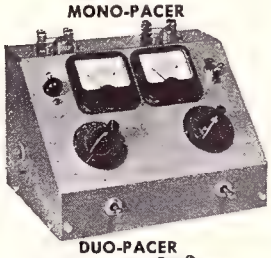
The Baltimore gathering coincided to the day with the 125th anniversay of the completion of the Thomas Viaduct. The B&O, always gracious, reenacted the original event by running their Tom Thumb replica at Ellicott City, especially to mark the occasion.

New! **PACER PACKS**

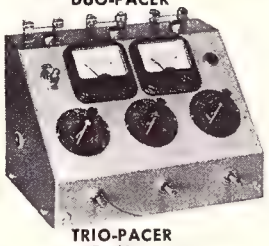
Offer you these exclusive qualities——



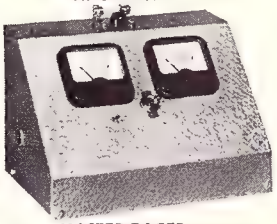
MONO-PACER



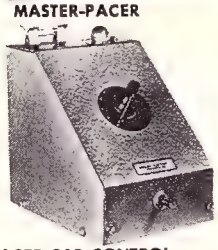
DUO-PACER



TRIO-PACER



MASTER-PACER



PACER CAB-CONTROL

Really new and different. Pacer Packs are designed to deliver full 12 volts D. C. to all sections of your layout. Say goodbye to jerky running and stalled engines at the other end of your layout. Pacer Packs are super powered with plenty of reserve for extra loads.

MONO-PACER with pulsed power **$15.95**
Super power for the small pike with 1 train. 1 amp capacity, 12 v. DC, 16-32 v. AC. Fuse protected. Power direction and pulse power switches.

DUO-PACER **$32.95**
Super power for two HO trains. Capacity, 2 amps plus. Full 12 v. DC for each train. 16-32 v. AC for accessories. Two meters, indicator lights, two speed controls, power and reverse switches. Twin fuses.

TRIO-PACER **$39.95**
Super-power for 3 HO trains. Delivers 2.7 amp, 12 v. DC, for each train. 16-32 v. AC outlets for accessories. Three speed controls, reversing switches, fuses, four indicator lights plus DC volt and ammeters.

MASTER-PACER **$28.95**
Master power house for use with separate Pacer Cab controls. Tremendous 5 amp capacity DC, with 3 uncontrolled DC outlets. Power for as many as 8 locomotives. Meters, fuse, light, and switch. Ideal for O gauge, too.

PACER CAB-CONTROL **$9.95**
For use with Master Pacer. Has input-output connections, speed control, indicator light, reverse switch and fuse. Can be added to Duo or Trio-pacer for extra cab.

Compare these exclusive features with any other line. Sloping front panel for best visibility. Two meters show the power you're getting and the current being drawn by all circuits. Individually fused track circuits prevent burnouts. All new materials with specially designed taper wound speed controls especially engineered for us by HARDWICK, HINDLE, famous producers of quality rheostats. Attractive Hammertone Grey cabinets.

If you can't see it at your dealer, send for two color brochure.

Dealers & Jobbers write

BERGEN ELECTRIC & PRODUCTS CO.
BOX 296 RIDGEWOOD, N. J.

More and more thousands are reading Railroad Model Craftsman each month; you've probably noticed it at your news stand. So that you won't miss out on any of the special features scheduled for the months ahead, send in today for a subscription. And, you'll save money at the same time! Use order form included in this issue.

WHILE OUR STOCK LASTS

RAILROAD PHOTO ALBUMS

ACT FAST: Get original Photo Albums covering the 4-4-0, 2-8-0, 4-6-0 locomotives.

Supplies limited

3 for $1.00

RAILROAD PHOTO ALBUMS
ROUTE 17, Dept. 97
Ramsey, New Jersey

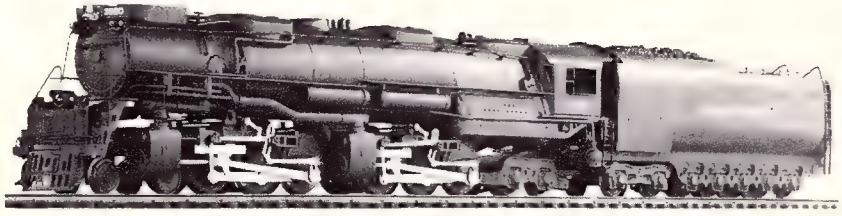
HARDWARE FOR OLD TIME KITS

HO Link & Pin Couplers—Brass..... $1.25 pr.
HO Link & Pin Couplers—Zamak..... .79 pr.
O ga. Link & Pin Couplers..... 1.35 pr.

See Your Hobby Dealer

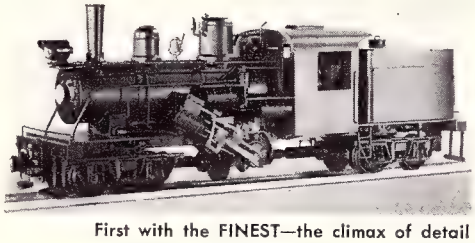
Hi-Ballers Corporation
1209 ISABEL STREET • BURBANK, CALIF.

LOBAUGH
MICROMETER PRECISION
Standard of the World in "O" Gauge



THE UNION PACIFIC ARTICULATED
A LOCOMOTIVE YOU'LL BE PROUD TO BUILD,
TO RUN AND TO OPERATE

A modern heavy-duty purpose locomotive. An ideal locomotive for the model railroad craftsman who demands the last word in detail and quality. This locomotive kit is primarily for the man who wants to build.



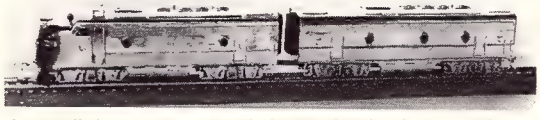
First with the FINEST—the climax of detail now with a SDA kit designed to match the prototype realism of the CLIMAX locomotive.
Send 25c today for our 1955 catalog No. 5991—your key to a railroad empire.

ROLLIN J. LOBAUGH

PO BOX 627 SOUTH SAN FRANCISCO, CALIF.

OUT IN FRONT – *as usual!*

INTERNATIONAL introduces EMD LATEST!



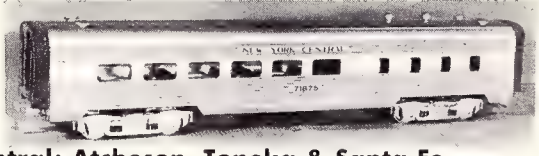
The F-9 in HO

Credit must ge given to G.M. who furnished the plans and specifications . . . and the master craftsmen who built these all brass super-detailed Diesels—the latest and most beautiful of the line. Instantly adopted by all leading roads—our scale model of it shows all the improvements—The 8 wheel drive unit with the Guaranteed Power Plus D.C. Motor insures perfect performance. Screw Drive Assembly—as usual—naturally—The A & B Unit Kits Complete only **$30.00**

(Kustom Bilt—completely finished will be ready shortly)

ALSO – the fully painted – nearly finished

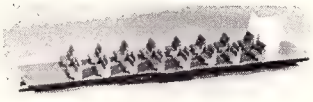
STREAMLINE PASSENGER CARS
not just shells, – but DETAILED INSIDE & OUT



Pennsylvania; N. Y. Central; Atcheson, Topeka & Santa Fe

No, not just shells—these all brass shorty Streamliners not only have fully detailed exteriors, but interiors as well with seats, tables, rest room, operating illumination, diaphrams, and our famous Kupeeze Couplers plus finely detailed brass wheel trucks.

Coach—Baggage—Diner —Sleeper ..... **$4.00 each**
Combination ..... **$4.50 each**
Vista Dome ..... **$5.00 each**
Observation ..... **$5.50 each**



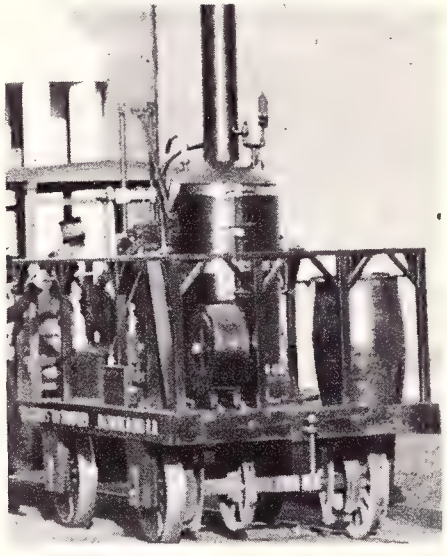
Typical passenger interior

Every MODEL RAILROADER can use 2-3 or more of these SPECIAL DC MOTORS
65c each
The "IMPTRON"—a new double magnet motor—1¼" wide—1" high—1½" in length including shaft. Operates on 1½ to 9V D.C. (to 12V with resistor) sufficient for trolleys, MUs—Cars—Turntables—Gates, elevators, etc. Dynamo type casing—with mounting bracket base.

Send 25c for latest catalog and supplements and get a FREE pair of "KUPEEZE"

INTERNATIONAL MODELS, INC. 33 Union Square, W. New York 3, N. Y.

Also inspected were the exhibits at the fine Baltimore & Ohio Railroad Museum. Spotted for photographs and gleaming as brilliantly as a brand new automobile, was 2-10-2 No. 6171, fresh from the Mount Clare Shops. B&O S class power is still used in Ohio.



Trolley fans also had a field day with two fan trips on Sunday. A retired Peter Witt and a PCC car took the tractioneers out to an old car barn where 9 old Baltimore cars are stored, awaiting permanent quarters at a new location.

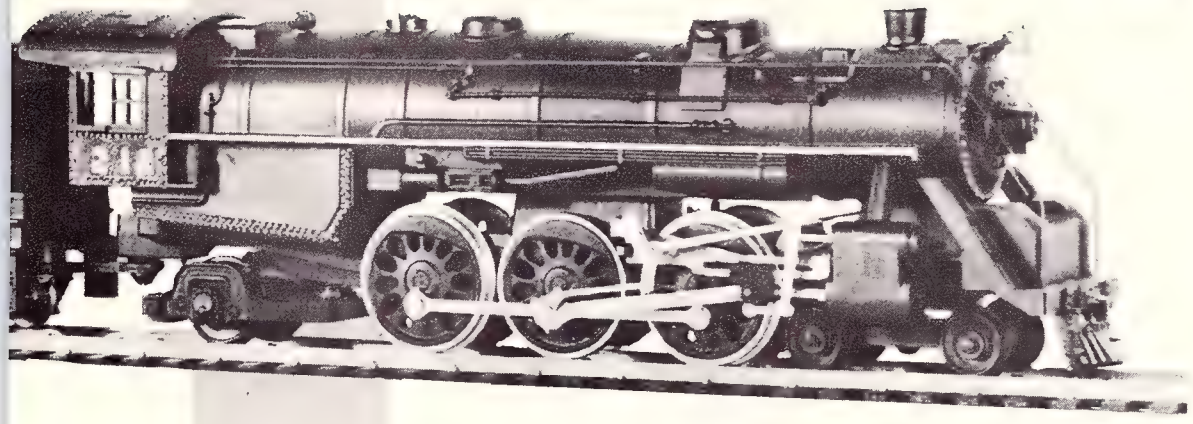
Several manufacturers were present. Al Pittman was there enjoying the convention on a busman's holiday. Room 838 held a fascinating display of O and HO models by Baldwin Model Locomotive Co., and both E. K. Ludington and Ken Hyslop of that company were present. Baldwin had their 0350 New Haven electric on display plus their other engines. L&W Models had a display of HO work cars that was truly fine. A small traction layout was also in operation with Model Tramway's Bert Sas behind the controller. Bert had some of the imported Hamo trolley equipment on display, including a new double truck European trolley somewhat similar to our PCC car. Local dealers were also present.

We enjoyed the banquet. Officials from cooperating railroads were guests of honor and the 600 present would have been content to listen to the Baltimore & Ohio Railroad's Glee Club all evening. B&O's Public Relations Man Bob Van Sant, in one of his last acts before retiring from the B&O, introduced Col. R. S. Henry of the Association of American Railroads, the guest speaker. Dancing followed the dinner.

The business meeting went smoothly. Russ Houghton told of plans to develop an O gauge automatic coupler along lines of their HO coupler but which will couple with the standard O gauge AAR dummy coupler. Ivan Preble, the staunch cigar smoking New Englander, heads the NMRA for 1956, succeeding George Brown. We wish we could comment on all the rails we met and talked with. There just isn't room.

Please address all editorial matter to: Editor, Railroad Model Craftsman, Ramsey, New Jersey.

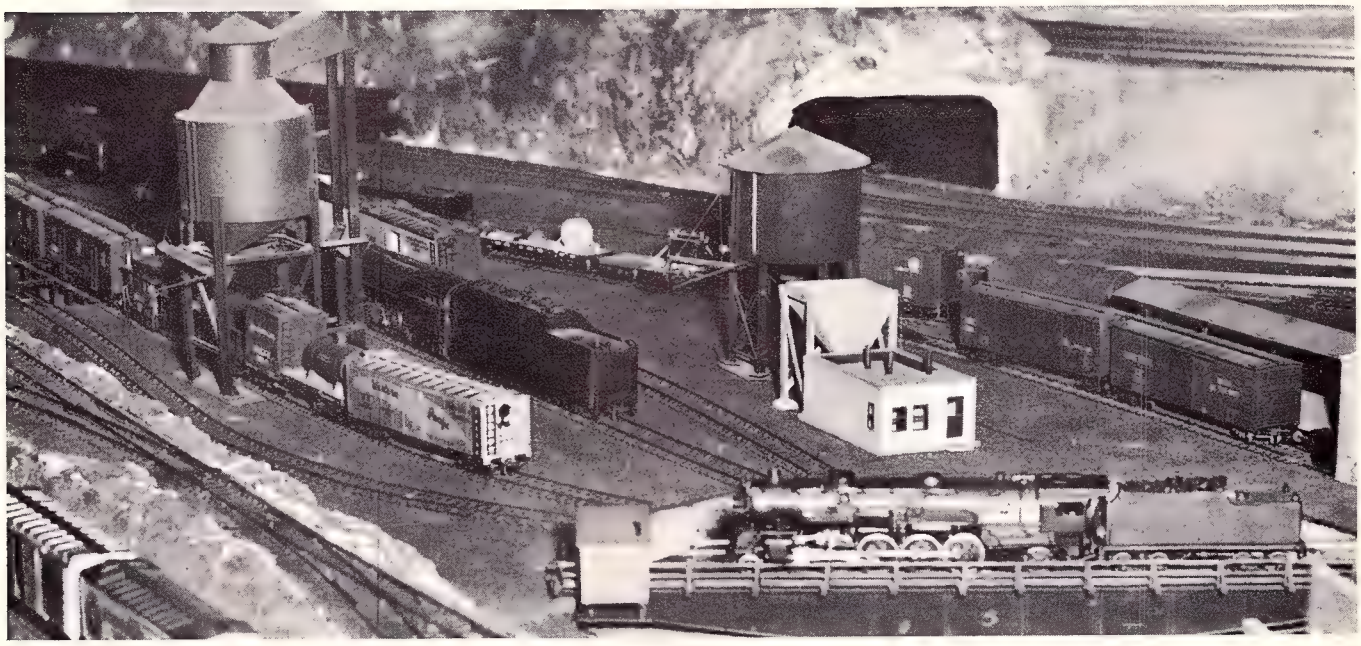
HO gauge



. . . a new concept in model railroading fun

IF you like models, you will be thrilled at your first glimpse of HO gauge. Passenger cars seem long and slender. Locomotives are crammed with detail, seemingly so delicate that one wonders how such jewel-like precision can be made to work. Automatic couplers provide reasonably foolproof remote control operation at low cost. Equipment is largely budget priced and well within the reach of even students and the harried new home owner. There are ready to run models for those short on time and just beginning. For the more experienced builder, many hobby shops maintain tremendous supplies of small parts and fittings as well as kits for building less common miniatures. If it ever ran on rails, it can be built in HO gauge. HO gauge models have been built which boast as much detail as similar models built in large gauges.

HO is not without its problems. If HO gauge seems cute in comparison with a similar model in O gauge, it is also less impressive. The small size quickly obscures detail at even a short distance. Car weight can often be critical in good operation and the comparatively light weight of motive power requires trackwork clean and free of gum deposits and oil. Despite these and other shortcomings, thousands of modelers have found HO to be the answer to their dreams. With it they create miniature empires of which they are king. You can do the same.



HO gauge

. . . in the beginning it was tinplate

HO Began In 1922

FOLLOWING World War I, a new small-sized train set was introduced by the German Bing Werke, manufacturers of toy trains, following designs developed by several British manufacturers. The new trains were about half the size of O gauge and for that reason were termed OO gauge. The first engine to this scale was a tiny 2-4-0 tank locomotive available with varying detail, depending on the country in which it would be sold. The American version had a small metal pilot, European copies had buffers. A track width of 16.5 millimeters was adopted and it soon became apparent that the originators were using a scale of 4mm. to the foot.

The Development of Scale

Shortly thereafter, Stewart-Reidpath, an Englishman, began commercial manufacture of the first scale parts for this gauge but scaled his bodies and engines to 3.5mm which was the correct scale for the 16.5mm track width. This new size he termed HO gauge, or half-O. Since European O gauge trains are scaled 7mm to the foot, this was correct. In this country, HO gauge is 10% larger than ⅛" scale, while most American O gauge is based on a ¼" to the foot scale. American HO gauge is therefore not ½ size of O gauge but is somewhat larger.

The small size caught on quickly. Many Americans found HO to their liking and became the pioneers in this scale. Edwin P. Alexander had an operating HO American prototype layout operating back in 1927 in his New Rochelle, New York, home. George Stock, Eric La Nal, and many others followed.

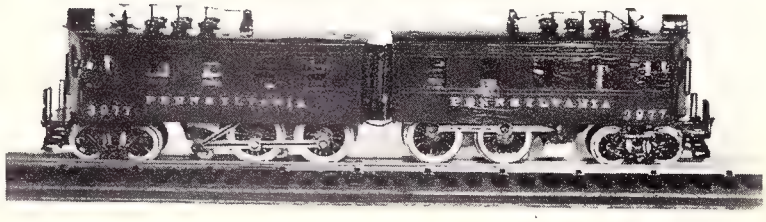
Parts and kits were soon available in the United States and the prices were low, a factor important during the depression years of the early Thirties. Cardboard, wood, and a few stamped metal parts were quickly transformed into all kinds of cars. Needed supplies for track and locomotives were at first imported but soon became available here.

It Developed Rapidly

The very first HO was strictly tinplate and used the familiar inside third rail for power pickup. Early scale HO also used the three rail system, two rail coming into the picture by the mid-thirties and quickly becoming the standard for HO gauge.

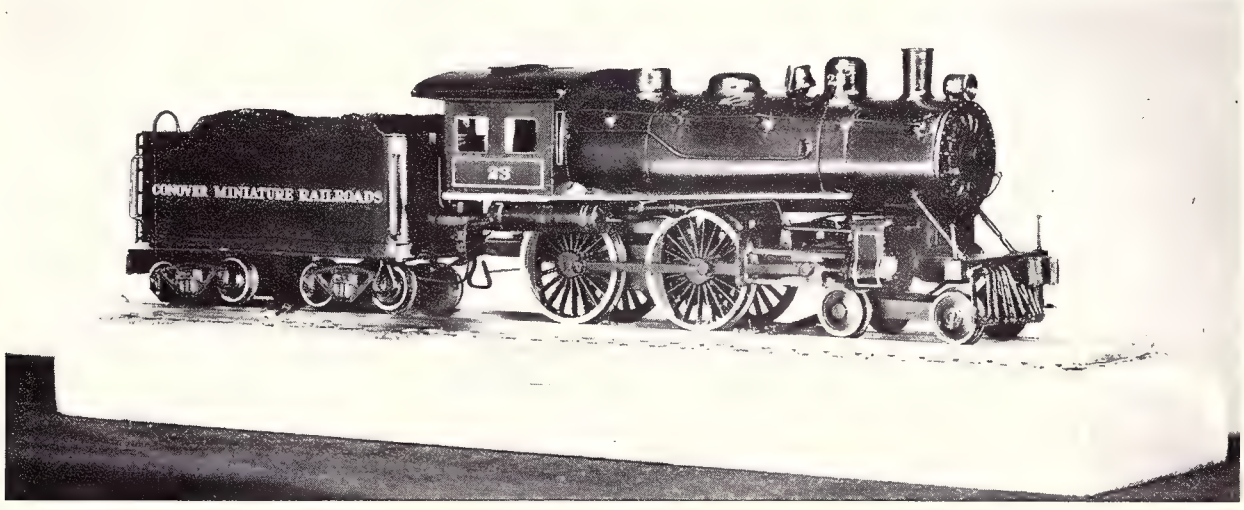
Soon manufactureres came into the picture. Mantua, Varney, Walthers, and Conover were some of the early ones and with the greater availability of parts, HO grew. By the late Thirties, HO had outstripped it's old rival, O gauge, for scale popularity on a percentage basis, although the number of O gaugers continued to increase. Even today, O gauge continues to draw many new fans, as do the other gauges.

The end of World War II saw HO take another tremendous stride forward as thousands of new hobbyists found in HO model railroading a wonderful way to relax, gain new friends, and learn new skills. The introduction of plastics and mass production manufacturing techniques have continued and excelerated this growth.



Commercial HO gauge began in 1922 with the release by the Bing Werke of their now historic 2-4-0 tank locomotive. Barely five years later, Edwin P. Alexander was operating his own HO layout in New York. His scratch built PRR DD-1, above, dates to 1928.

Conover Miniature Railroads was one of the first American HO loco manufacturers, producing two different models. Biggest was a husky B&O 2-10-2 S class engine, the other the small but modern 4-4-0 shown below. This engine was in manufacture in mid and late Thirties.



HO gauge

. . . what is HO gauge?

HO gauge was developed in Europe during the Twenties by cutting in half the gauge and scale of the then standard O gauge. It ended up with a gauge of 16.5 millimeters and a scale of 3.5 mm. to the foot. American manufacturers now call this .650" gauge with a scale of .138" to the foot scale so that they can make it better and more easily on American machine tools, which are graduated in inches.

The average modeler, need not be concerned with millimeters at all, and only vaguely with inches (as in how big a layout is). Track is already made to the correct gauge at the factory and wheels arranged to fit it. Cars, engines, buildings, as well as all kits, are built to the correct scale. Unless you care to build your own models from raw materials you do not even have to think about scale.

American HO gauge trains are, at this writing, all made for two rail operation. Some makes of European trains, including the famed Marklin line, operate with an inside third rail just as do our American O gauge tinplate trains. American HO trains, and many European ones, operate on 12 volts Direct Current. Trains are reversed by merely flipping a lever on the power pack or control board. A few European trains operate on 20 volts Alternating Current, and are reversed by shooting 28 volts into the the tracks, momentarily. In buying foreign HO trains, be sure that you understand what current they use and whether or not they are two or three rail.

No other size of model train has ever approached the variety now available from a hundred different manufacturers in HO gauge. With the 1955 season, many department and toy stores will stock HO gauge train sets for the first time. Many good basic ready to run sets are available at prices from $25 on up. The buyer will have his choice of over 100 different ready to run sets by 14 manufacturers.

To really see HO you will have to visit your nearby hobby shop (see the Dealer Directory in the back pages of this issue of RMC). Your hobby dealer, in addition to stocking a good selection of ready to run HO sets, also has a stock of hundreds of different HO gauge car, locomotive, and building kits. There are prices for every pocketbook.

The kits are of all kinds. Some require only a minimum of assembling with only a screwdriver. A very few kits still require soldering and some drilling. Most kits today can be assembled with a minimum of tools: a good pair of needlenose pliers, a few small files, a screwdriver (small), and a modeling knife. Later, you can get other tools as you might find a need for them.

Most dealers will let you look at the kits before you buy them, especially if they are not too busy at the time. Most dealers know the model field and will be happy to guide you in picking your first kits. Later on you will know what you want.

The selection of locomotive models in HO gauge is outstanding. Almost every major type of diesel locomotive is available in commercial kit form as are most major steam locomotive types (although not every class). These locomotives can be lettered for most major railroads and many lesser known lines as well. Specially compounded model railroad paints are available in almost every color and there are lettering sets (called decals) which permit anybody to accurately letter any car or engine as he may choose, even with his own made-up railroad name.

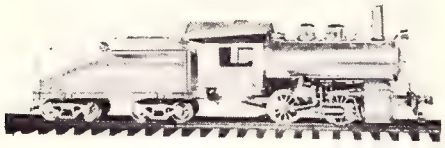
You don't have to stick with 1955-type railroading, either. Many fans ignore the diesel, choosing instead the last glorious days of steam power as their period of operations. Still others prefer the 1900 era while others go back to 1880. Whatever period you choose, HO gauge offers a tremendous selection.

Photo below shows comparison in size between the popular model railroad gauges. At right is O gauge ¼" inch scale, largest common home size. Second is S gauge 3/16" scale car of same type. OO gauge is next, followed by HO gauge. Smallest car shown is TT gauge. In the toy train field, O gauge is still on top, followed by S gauge. In the scale field, HO leads with O gauge easily bringing up second place.

HO gauge

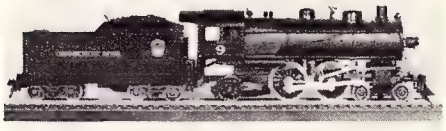
. . . some facts about locomotives and kits

steam switchers



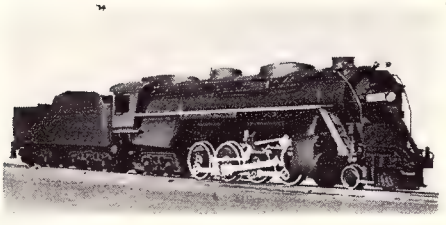
THE exceptionally low cost of the HO steam switcher, especially the 0-4-0, has long made it a favorite with HOers. The switcher is used primarily in shunting cars around yards, although the smaller engines are often used in crowded industrial and street areas where their small size permits negotiating the street-car-like curves. Nearly all switcher kits are simple screwdriver assembly projects taking less than an evening to complete and several are available ready to run. The switcher can be used as a freight locomotive until more engines are acquired.

passenger locomotives



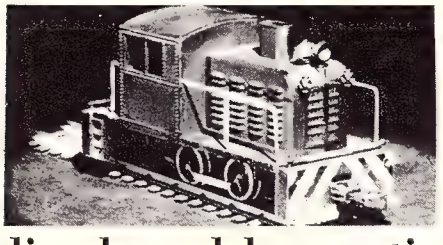
THE steam passenger locomotive is the best looking of all the locomotives as a general rule. Drivers are high, for speed. Wheel arrangements include the 4-4-0, 4-4-2, 4-6-2, 4-6-4, 4-8-2, and 4-8-4, although some of these designs have been excellent freight haulers or dual purpose locomotives. Prices on these locomotives run from $15 up, depending on quality, the amount of detail included, and the number of drivers. Normally, the more drivers, the higher the price. Many dealers stock extra parts which can be used to add extra detail if desired.

freight locomotives



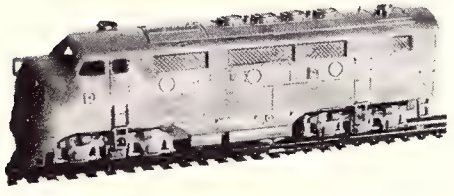
RAILROADS derive most of their revenue from freight and so every model railroad should have at least one good hefty freight locomotive. Typical freight wheel arrangements include the 2-8-0, 2-8-2, 2-8-4, and 2-10-0. All of these designs are available in kit form at prices from $19.95 and up. If you own a switcher, the freight locomotive would be a logical second locomotive. In choosing your locomotive, check your sharpest curve and be sure that your new locomotive will be able to take that radius. Also be sure that the kit you pick is not too difficult for you. Most of the available kits assemble easily.

diesel switchers



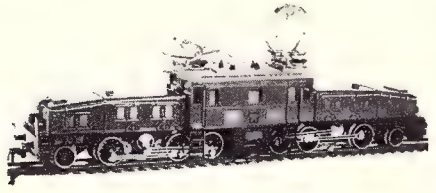
DIESEL switchers have all but crowded the steam switcher out of existance and they are plentiful in kit form, too. These range from tiny four wheeled industrial type switchers to giant 1200 hp growlers that can also be used in freight service. Some road switchers develop as much as 2000 hp. Road switchers are an excellent starting engine; can be used for switching, freight, and passenger service. Model switchers are often available with either 4 or 8 wheel drive; drivers on the two trucks being connected by a flexible shaft. Most switcher kits assemble easily. Prices are also attractive to beginners.

diesel road locomotives



DIESEL road locomotives come in both passenger and freight designs, as well as in dual service models. The passenger designs are easily spotted by their long length, dual service and freight designs being shorter. Recently a trend has started to use more road switchers and general purpose locomotives for heavy through service. The streamlined (or hood) units are among the lowest priced HO locomotives available even when ready to run and provide an excellent means of building up big motive power rapidly, and 2, 3, or 4 may be coupled together.

electric locomotives



ELECTRIC locomotiveshave never been too popular in HO gauge although several interesting kits are available, all imported from either Germany or Japan. The Japanese kits follow American prototype but the German locomotives (which are ready to run) are typically European. Several American manufacturers offer miniature street cars and there is a complete line of multiple unit cars available. A complete Directory of all locomotives, steam, diesel, and electric, in all gauges, appeared in Railroad Model Craftsman, October and November, 1954.

sunrise on a new G & D

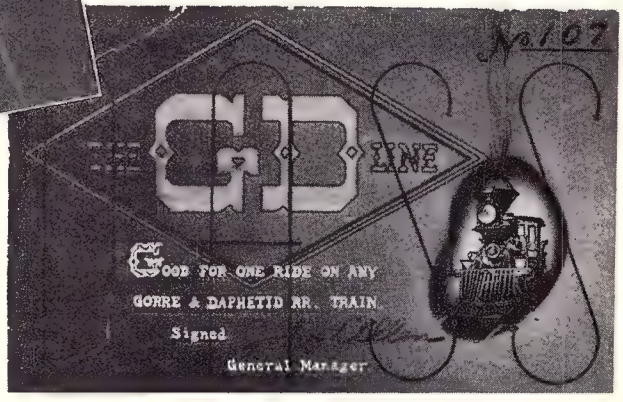
with first photos by John Allen

"General view of the new railroad during early construction. In center distance, is the original branchline with new construction around it. Freight yard will be in left rear and engine yard in right foreground. The new pike will be about three times the size of the old one. The builder is retaining the original railroad names."

"One of the last views of the old Gorre & Daphetid Railroad before its abandonment and destruction. Buildings, rolling stock, removable bridges, etc., were salvaged. Monument near foreground switch was erected to commemorate the completion of the mainline, March 11, 1950. An attempt was made to sell my former house with railroad intact to a model rail, but though many expressed interest by mail, no one bought. After holding it for six months, the railroad was torn out and the house sold to a non-railroader. Only the original branchline section of pike was saved."

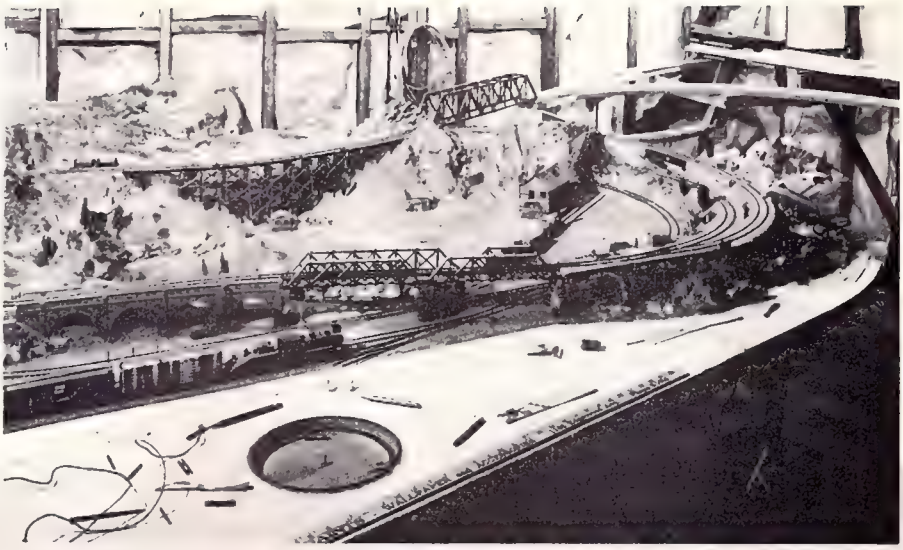
a new rail road

"High curved trestle being built in place on new mainline. A wood and truss rod deck will span the gorge betwen trestle sections. Note that trestle members are painted before construction. When this is done to the stripwood before the lengths are cut, only the ends need later be painted, saving a great deal of painting time."



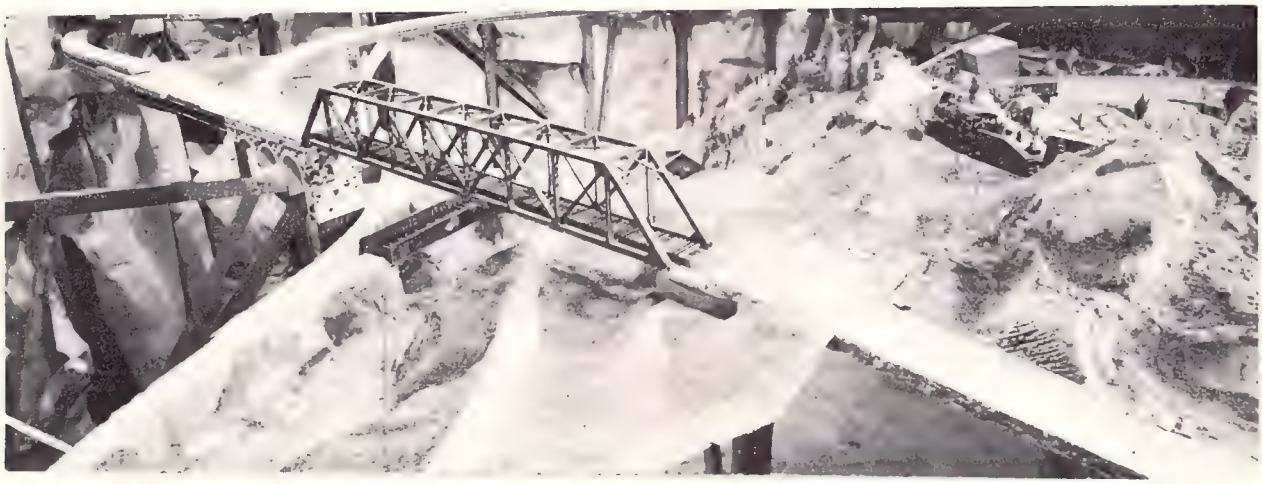
"Some of the new construction and old branchline. Bridges, viaducts, and grading for roadbed are here ready for the ballast, ties, and rail. Foreground grade and over truss bridge is for GD line. Grade between this and completed branchline is for DG&H three foot gauge railroad."

"Only part of old railroad saved was the original 3'7" x 6'8" branchline, which again is being incorporated into the larger pike. This section was set in place acording to the new layout plan and put into operation. New railroad construction continues on from this point and as each new section is finished, it will be incorporated into operation. Turntable is dual-gauge."

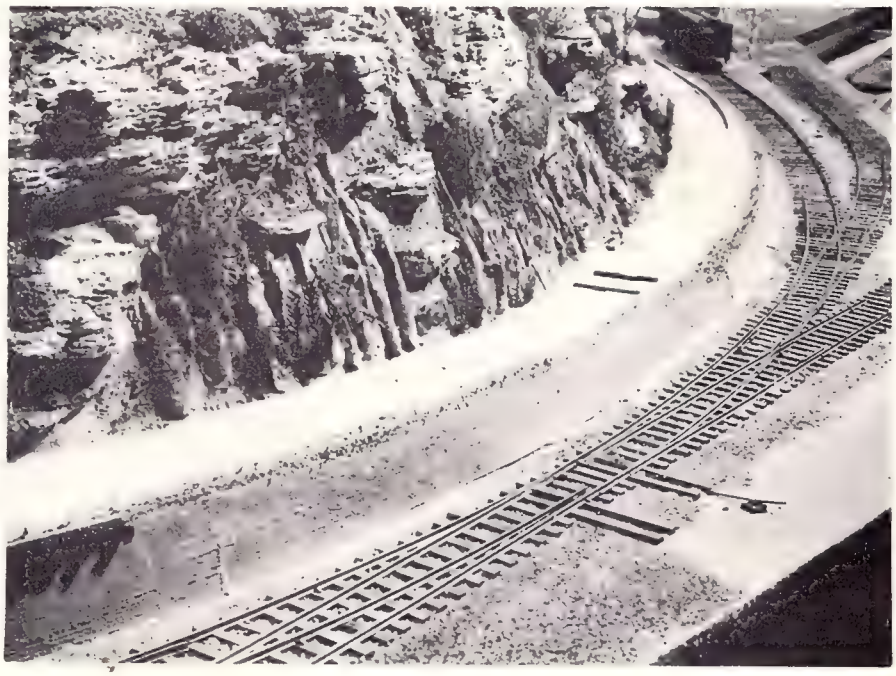


is builded

"Another view of the same area shown in photo at lower left. Note how viaduct (not quite completed) was built prior to putting in surrounding earth. Train at right is operating on old branchline. Truss and girder bridges were salvaged from the old pike. Terrain is rugged and wild."



"One of the features I disliked about my old pike was the lack of small rail sizes available during most of its construction. New railroad is being laid with scale rail and that means it is smaller than code 100 rail which is oversize for HO. These homemade standard HO switches at Westport made up from code 70 nickel-silver rail show the results. Also used on the pike is British .066 nickel silver for narrow gauge and some standard gauge sidings. Most of the standard gauge mainline and all duo-gauge will be laid with code 70 nickel silver rail. I find nickel silver better appearing, has better electrical contact and oxidizing qualities than brass, is worth cost."



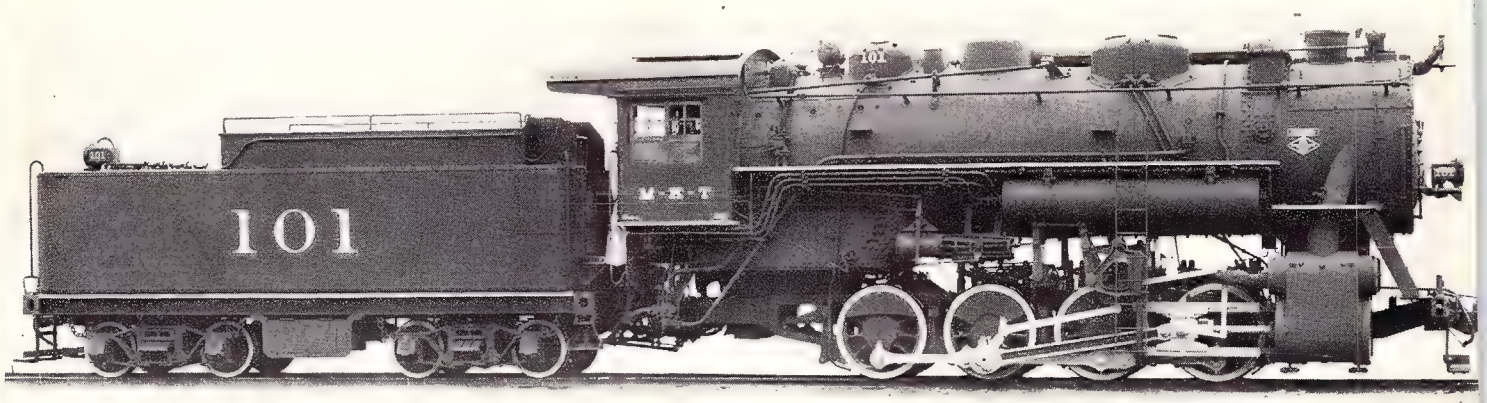
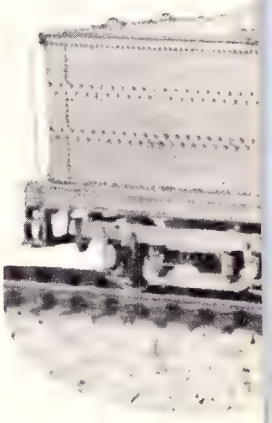


Photo above: Lima Locomotive
Photo right: Sam Skean



To be able to make your own locomotive frames is one of the biggest steps involved in making a locomotive from scratch.

by William Schopp

TO be able to make a new locomotive frame of your own is to be able to take the biggest step in making a model steam engine from "scratch"—i.e. from raw materials—or in making a major revision in a locomotive kit. I got started in this only a few years ago when I made a new frame to fit under a Mantua Belle of the Eighties 4-4-0, in order to convert it into a matching 2-8-0, the "Elizabeth Pansy Perkins", which was written up in RMC for September 1953. Since then I have made several more conversions and new engines culminating in the scratch-built Winans camel described in the Apr. '55 RMC and the heavy 0-8-0 switcher. And more are yet to come.

Since my early HO experience was influenced by George Stock, *the* pioneer in the field, it is not strange that I chose to develop the channel brass method of HO loco frame construction that he favors. George, however, simply jig drills holes for the axles and presses on the drivers, quartering them as he goes. I do not have his equipment, skill, or constructional experience, so I have worked out a method akin to commercial kit construction using slots instead of holes, so that whole wheel sets can be dropped in place, to be held by the retainer plate. I also favor using Mantua bearing inserts (No. 6301, 6302) not only to give less wear, but to permit minor adjustments to be made in alignment as required by my own less precise workmanship and tools.

I have described this method before in RMC, have glossed over it in other articles by reference to previous ones, but now with this heavy 0-8-0 switcher being such a glamorous engine (according to my friends), I feel that here is the place to go over the method at as much length as required. I should emphasize that it is not the *only* method and certainly the editor will be happy to give space to those who advocate a different method of frame construction. You do not need much in the way of special tools for making frames from channel brass: a hand-drill will do, but I use an electric drill mounted in a drill press stand—which is far from being true because of complete absence (as far as I can tell from the mfgrs. booklet) of any real front bearing; some kind of a small square —I use a vernier caliper in millimeters which you can get at a watchmaker's supply store as a Boley gauge, as well as a less expensive one in inches which you can get at Sears or Pep Boys; something to scribe with; a center-punch; a jewelers' saw; a fair but not necessarily complete selection of drills; a few small files; a 2-56 and 0-80 tap (I also use 00-90 but not on frames).

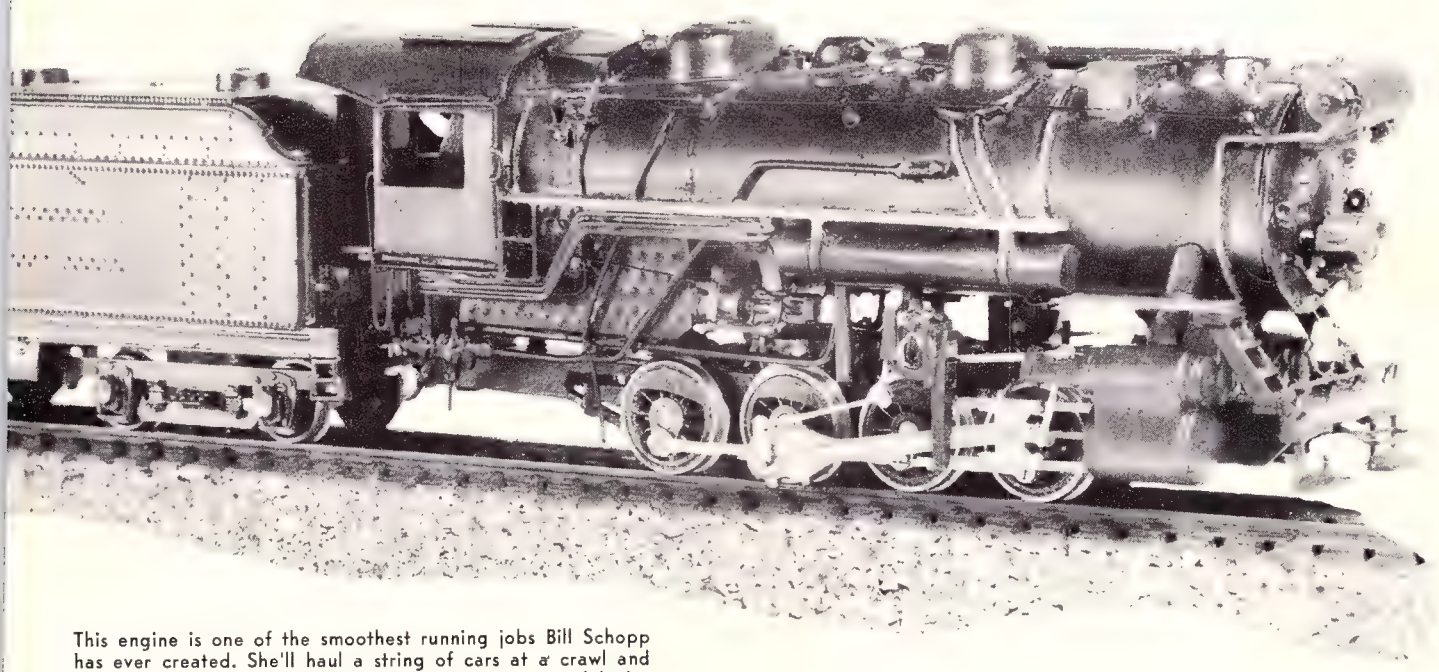
Getting Channel Brass

Where do you get channel brass? For HO gauge I recommend channel ½" (wide) ⅜" (high) x 1/16" (thick). One source is George Stock, whose address is 83 W. Sedgwick Street, Philadelphia. His price is 10 cents per inch, plus postage. Another source is Special Shapes, 4817 Linscott St., Downers Grove, Ill., whose price is the same, except that minimum postage charge is 30c and usual length sold is 30". It can also be obtained from numerous Chase Brass & Copper stores in principle cities, but again with a minimum charge (you may want other brass stock while you are there). If you like building engines

MKT 0-8-0

PART 1 OF 2 PARTS

MAKING LOCOMOTIVE FRAMES FROM CHANNEL BRASS



This engine is one of the smoothest running jobs Bill Schopp has ever created. She'll haul a string of cars at a crawl and that husky appearance will make her welcome on any model pike.

from scratch, you might as well get yourself a few feet, at least, just to have around.

Blue layout dye (one trade name is Dykem) is also handy to use since it makes scribe marks more easily visible. This can be obtained at hardware or mill supply stores anywhere. However any quick drying paint can be used, and I have even utilized thinned out nail polish. You can get by simply by scribing on the bare brass, but sometimes you need an eye-glass to distinguish your scribed line from a natural mark on the metal, and corrections can be quite confusing.

First catch your rabbit . . . rather, get frame dimensions of the loco you wish to make the frame for. Usually this can be obtained from back issues of RMC, from a Locomotive Cyclopedia at your local library, from contemporary real railroad magazines, from a "fan" book or other publication, rarely from the railroad itself, and as last resort by faking a plan from photographs. What you mainly need is the wheel spacing. The M-K-T heavy 0-8-0 plans reproduced this month, were the basis of my model's frame. I am showing with this article frame plans for the HO model I built. If you do not draw up as full a drawing as this, you must at least sketch out the exact driver spacing in millimeters or inches (depending on which kind of calipers you will use), and indicate how far down from the top of the channel the axle holes will be—usually it is convenient to make them half-way down. Also allow enough space before and behind the driving axles for cylinders, lead truck, and trailing truck, or at least the space where they would be if the engine had them. Incidentally, by making a new frame with a different wheel arrangement you can create a "family" of engines having the same general superstructure, which is what real railroads often did. Dimensions in full sized feet may be changed to inches or mm. via the conversion tables in the NMRA literature or directly from a scale of HO (or your scale) feet with a set of dividers.

Take a piece of channel brass a little longer than the frame is to be (to allow for minor changes that may be required by your motor, extra truck clearance, etc.) Paint its outside surface with layout dye if you have any. Then using your dividers or calipers open to *about half* the width of the channel. Scribe two lines close together down the center of the channel's top. Half-way between these lines will be the center line of the top. Mark the axle spacing, etc. on the top in pencil first to be sure you are not too far front or back on the channel. Center-punch the center of the top where the first axle will go. Then open your calipers or dividers to the spacing back to the second axle and mark that on the center line. Center punch again. Then open dividers or calipers to spacing of second to third axle and mark that on center line. Center punch again. And so on. Also measure forward from first axle to center of cylinders and mark again. This will usually be drilled out later, unless Varney "three-hole" cylinders are used. Anyhow it is a good point of reference.

Now with a small square or calipers scribe lines across the top at the site of each axle. In order to see where these will extend down the sides, use a fine jewelers' saw blade

and cut into the corner of the channel slightly at each site. Then when you turn the channel on its side, you will have reference points from which to extend these lines, again using a small square or calipers. With calipers you can mark a horizontal line of axles the required distance down from the top of the frame at each side. Where these lines intersect cross lines, center-punch for axle centers. Correct any mis-punching by slanting the punch a little. I favor an automatic center punch myself.

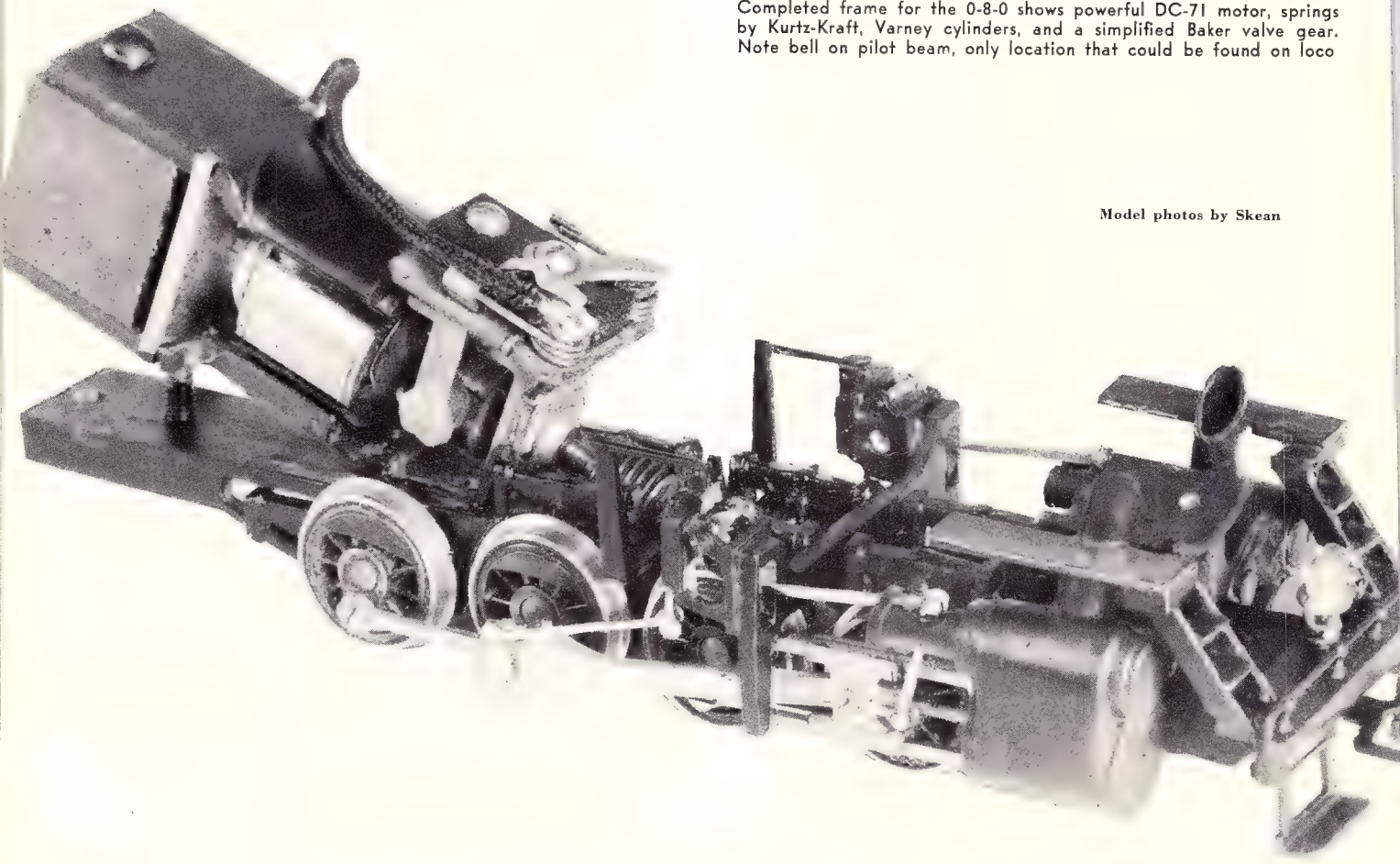
Put the frame one side up in a drill-press vise and drill through each center punched site with a small drill, say a No. 60 or anything convenient. Drill through the one side of the frame only. If you use a hand rather than electric drill, eye it carefully to be sure it is perpendicular to the work. Turn frame over and drill center punched axle holes on other side. When you remove the frame from the vise, use the same drill and run its shank through the holes, trying to run from one side to the other, as an axle. If the shank is messed up by the chuck, you may have to use the next size smaller drill. Eyeing from the end will tell you whether the axle would be parallel with the top of the frame (and with the track). Eyeing from the top or bottom will show you whether the axle would be at right angles to the frame. If either way would be slightly on the bias, determine by reference to scribed lines on sides which side of the frame is "out" and correct it as well as you can with a mouse-tail file. You may not as yet be able to get the drill "axle" at right angles but keep working that way. The diagram, fig. 2, shows how to file the hole out round, rather than just elongating it.

Next drill out holes with little larger drill and check with back of drill again, filing if need be. Take up to the final 3/16" diameter in at least four steps (1/16", 3/32", 1/8", 3/16"), more if you have a set of numbered drills. The second frame in the photo on page 23 shows the frame for a New York, Lake Erie & Western camelback decapod that has reached this stage. The third frame shows how the bottoms of the holes are opened out. Use a jewelers' saw for this job, finishing up with a file. The Mantua bearings should slip into 3/16" slots, but if they do not, file their ends a slight bit narrower. Ideally they should snap right in without being compressed, and should then stay in. This ideal is difficult to attain. If axles bind in bearings, file inside of bearing a little with a round file, or polish axles with a piece of emery cloth. Each wheel should be spinnable in its bearing set in the inverted frame before making a retainer plate. If a bearing slot has to be elongated to get a bearing in the right place, the bearing may be soldered in to keep it from shifting. A bearing that is too high on one side may be shimmed down with a bit of brass or solder under its end. The same applies to a a bearing that is too high on one side bearing that is too high on both sides. will have to be considered right and the other axles moved down, altho if there are not too many slots they may be filed deeper).

Retainer plates are usually made from 1/16" brass, cut 3/8" wide to slip into the channel. Both the retainer and the top of the frame should be cut out with a jewelers' saw to clear the gear on the driven axle. There should also be a hole in the retainer for access to the motor mounting screw so that the motor may be removed without dropping out the wheels, a fault some kit engines have. Screws to attach retainer to frame should preferably be located between each pair of drivers, altho sometimes this is not possible. Exact location of these screws is usually of not much importance, but avoid trying to be clever by attaching the motor or yoke to the upper end of the screw—such tricks as this will cause you grief later. Drill No. 50 holes in center of retainer where you will put the screws, then wedge or tack-solder it up inside the channel and drill No. 50 right on through the top of the channel. Remove retainer, open holes to No. 42 to clear a 2-56 screw, then countersink with a larger drill to recess the heads of the 2-56 x 3/8" (or 1/2") screws used to attach

Completed frame for the 0-8-0 shows powerful DC-71 motor, springs by Kurtz-Kraft, Varney cylinders, and a simplified Baker valve gear. Note bell on pilot beam, only location that could be found on loco

Model photos by Skean



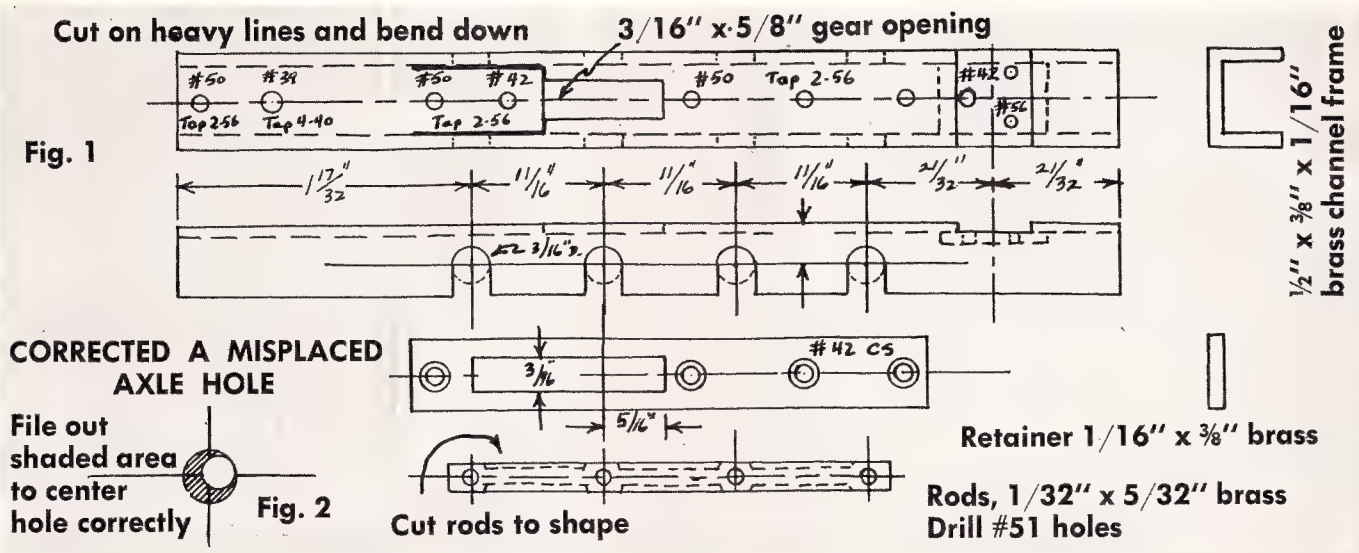


Fig. 1

CORRECTED A MISPLACED AXLE HOLE

Fig. 2

retainer to frame. Tap holes in top of frame 2-56, of course. You should now get all wheels to spin freely in their bearings with retainer plate screwed up snugly—but there should be no extra wobbling of the wheels.

The next step is to make the side rods. For these I use 1/32" x 5/32" flat brass strip obtained from Special Shapes, altho the same size German Silver would look a little better. A center line is marked down this as it was on top of the channel, then the axle spacings for one side are stepped off with dividers or calipers. This one side rod is then cut off, with a little surplus at the ends, and soldered to a similar length blank side rod. Then place in drill-press vise and drill through both rods at once with a small drill. Start with a smaller drill and work up to the size that will just clear the crank-pin screw shoulders. A No. 51 drill is safe to use for almost any make screw, altho some will require larger holes. Separate the soldered together rods and attach them to the drivers. Attach to only two adjacent pair of drivers at a time so that you can localize binds. I have found that to eliminate bind you can elongate these holes quite a bit, all but the one on the geared axle which should not be tampered with. Later on, when all is as smooth as Waren Spahn throwing to first base, you can narrow down the portions of the side rods between crank-pins. Filing is usually recommended for this, but I prefer to use a fine jewelers' saw and just touch up with a file. The drivers, with their side-rods should revolve freely when pushed along the track or table. All drivers should be in contact with the rail, which can be attained by judicious filing or shimming if the bottom of the bearing. A very slight snag in freedom may work out after the motor is attached, provided you are not using main drivers with a nylon or fibre gear (which will strip easier).

Provision should be made to mount the motor. Commonly this is done on the back end of the frame, altho the Ross Winans "camel" I described in a recent RMC had the motor in the tender. The easiest motor to mount on an engine is a Mantua PM-1 which has a suitable slope built right in. All you need is two holes in the right places in the frame, elongated into slots for adjustment, and you can solder the metal worm to the motor shaft and mesh the gears to check freedom of the mechanism under power. It is not good to drive a worm on a shaft since that will mutilate the *other* end of the shaft and cause poor running. A nylon worm must be placed on a knurled shaft end; knurling may be done in the comfort of your own home with a pair of cutting pliers, altho the result is not exactly beautiful.

A Pittman DC-60 motor may be mounted flat on the frame as in the

Channel brass frames, front to back are (1) old time E. P. Perkins marked out and center punched, with cylinder cut-out made; (2) N. Y., L. E. & W. camelback decapod with axle holes cut out to 3/16" diam. to take Mantua bearings; (3) PRR 4-6-0 frame with slots opened.

HIGH BALL RAILROAD PAINT

"..Fantastic covering qualities!" says Trade Topics. (Oct., '54)... "We like this new line of paint, it's easy to apply and gives a good durable finish." "Smaller bottle (25 cc.) eliminates drying out and waste." ... Only 25¢

"HIGH BALL Flat Black, also available in spray cans..for anyone to spray-paint locomotives." $1.29

HIGH BALL R. R. Paint Kit. Authentic colors for whole train. Thinner, brush, 8 jars. 89¢

pactra CHEMICAL COMPANY

1213 N. Highland Ave. Los Angeles 38, Calif.

S Gauge Railroaders

We stock products of leading S gauge manufacturers. Scale or tinplate. Send 25c in coin for our catalog.

LeRoy J. Vavrinek

1561 Walnut Ave. Des Plaines 2, Ill.

x-acto KNIVES • TOOLS HANDICRAFT KITS

NO. 77 VIZI-DOME WOODCARVING SET $3.60

X-ACTO, INC. 48-45 Van Dam St. Long Island City, N. Y.

Send 25¢ for 28-page Catalog

MODEL BY MAIL

Kits – Parts – Structures – Accessories shipped at Published Prices!

No Minimum HO-S-TT Gauges

On Orders Less Than $2.00 add only a dime for postage

MODEL RAIL DEPOT

16324 Hawthorne Blvd., Lawndale, Calif.

A Model Builders Must

RAILROAD PHOTO ALBUMS

Photograph-like reproductions of your favorite steam locomotives; a comprehensive photo collection of two distinct locomotive types.

• Many rare engines included

These are the finest photo books ever offered to the serious railroad modeler. Large, brilliant reproductions enable you to add elaborate, accurate detail to your favorite loco and give you a thorough knowledge of a particular locomotive type. An elaborate printing process on a specially treated paper gives you photo-like reproduction of your favorite locos, photos long sought by both rail fan and *scale* enthusiast. Railroad Photo Albums are available for two distinct locos (each book illustrates more than forty different engines), the 2-6-0 Mogul and the 0-4-0 switcher. Both Albums may be obtained through your local dealer for only 69c each.

If your local dealer cannot supply, order direct from publisher.

RAILROAD PHOTO ALBUMS

Route 19 Ramsey, N. J.

smaller Penn-Line engines if one of the rather large diameter Penn-Line worms can be used to mesh with the gear on the driving axle. Otherwise an oblique cut must be made in the frame to permit the DC-60 to ride at an angle so the worm will be low enough. See the frame for my Pennsy style 4-4-0 in the June 1955 RMC. Lindsay motors may all be mounted by means of a Lindsay mounting bracket. However this tends to raise the motor a little high, so it is better, if you can, to use one of the numbers of Lindsay motors with mounting pads on the bottom which permit direct mounting to the frame. Main motors already have mounting holes in the bottom and may be mounted flat. Bowser motors are a bit tricky to mount via their studs out the front, except in locos engineered especially for them; which is a shame since they pack a mighty wallop for their size.

In the heavy 0-8-0 which is sort of under discussion here, I wanted to use a DC-71 motor, unprecedentedly big for a steam switcher. This has a built in tilt, like a Mantua motor, but when located so as to stay inside the cab, the worm did not hit the gear. Consequently I sawed slots back from the gear opening in the top of the frame and then bent the resulting peninsula of metal downward a little more than was needed to bring the motor shaft and worm low enough to mesh with the gear. The back of the motor I then jacked up with a 4-40 screw, which permitted adjustment of the mesh. Unfortunately I had to cut a bit off the end of the shaft to keep it from fouling the top of the frame; it seems bad policy to cut off motor shafts this way since it limits their chances of re-use somewhat.

This particular 0-8-0 switcher I modeled with the springs above each driver (and behind the rear one in order to clear the firebox). These are a luxury I never indulged in before but they do improve the appearance. These are Kurtz-Kraft engine springs, No. 255, which retail for $1.25 per pair. There seems to be some mystery about the availability of these, wholesalers professing to know nothing of them. However a typewritten list from Kurtz-Kraft as of early 1955 mentions them, so if you can't obtain them locally write to Kurtz-Kraft. Kemtron also makes HO engine springs X-97 at 25c *each*, which will do, altho they are of a different style: however if all springs are alike this is of little importance. Either make spring must be cut down somewhat, then sweat soldered to the top of the frame. The third set of springs, for the geared driver, must be ground out somewhat to give worm clearance and possibly the front of the motor must be filed to clear the back of the springs.

Really before mounting springs, if any, the front of the frame should be cut out for the cylinder block. How deep this cut must be can be determined mainly from observation with the exact cylinders you will use. I found that on the 0-8-0, using Varney Alligator crossed style cylinders, that 1/16" depth was required to get the center of cylinders in line with the centers of the drivers. This I floored with a piece of 1/16" brass, soldered in place. In the Elizabeth Pansy Perkins old time 2-8-0 frame shown in front in the photo, I have already cut out a larger piece for its cylinders: it is shown laying by, because it will later be soldered in lengthwise to floor the slot.

Here is my technique for cutting such a slot with a jewelers' saw, after it has been carefully marked out with a scriber. I first cut the cross cuts to a shade more than the required depth. Then I turn the saw in one of these cuts, working it back and forth until it is at right angles to the original cut and ready to cut along the horizontal line. However, to try to cut the horizontal lines on both sides at once would result in one of them being wavy, and maybe too deep. Consequently I keep changing the angle of the saw so that the one side I can watch gets cut, while on the other side the saw blade stays in approximately the same place. Once the first side is cut, I can then easily cut the second side and the piece drops out.

A little better procedure in making frames if you have a good drill press is to make a jig or pattern for the axle holes in a piece of 1/16" or 1/8" steel or brass. Once you have drilled one hole in a side-rod or channel brass with this, you can then put a pin through the hole and go on to the next one.

Material notes: You need three Mantua bearings No. 6301 and two No. 6302 for the 0-8-0 frame, plus four pair of drivers of 51" diameter, one with gear. These may be any make just so they are the same. If you are fortunate enough to find some old Mantua drivers with twelve spokes, you can cut out alternate spokes and have a six spoke approximation of the seven spoke driver used by the Lima Loco Works in building these MKT switchers. However of recent years Mantua 51" drivers have had eleven spokes and do not lend themselves to this treatment. Some of these recent 51"-ers have the nylon gear with rather fast speed ratio, while others have the old slow speed brass gear. Naturally MDC or English switcher drivers may be used. In any case the correct worm should be used.

Any make crank-pin screws may be used. My preference with the hex-head ones, requiring a wrench, used by several makers is to screw them in tight as directed, then cut a slit across the head of each with a jewelers' saw so I can thereafter use a screw-driver which doesn't get lost as easily as one of those wrenches.

GEORGETOWN, COLORADO

by Lloyd Giebner

Let's travel back to 1870 when the West was young. Diamond stacks and flat roofed coaches were the ultimate in travel. These same stores will also age any up to date model pike. Make them easily from model wood shapes or bristol.

WELL! Here they are fellows, this time it is Georgetown, Colorado; a group of four small structures as they were in 1870 at the end of Alpine Street.

Should you like to know something about this old mining town read the book written by John Willard Horner "SILVER TOWN" published by Caxton Printers, Caldwell, Idaho, 1950. And, too, for a picture of the model in this article see photographs three and four between the pages 160 and 161 of the book.

The miniature models are facsimiles of the old wooden buildings and I figure they should be of interest and ideal for the old time modelers.

I might add here that should any of you old time fans like to have me do a construction article on some particular subject—just mail in your suggestion and I'll do my darndest to please you.

The fronts of these Georgetown buildings are a little unusual and I suggest you study the make up before beginning any construction. Measurements and layout of the cardboard inner frame must be exact—and should you get off to a wrong start or measurement of the card frame the stripwood framing of the doors and windows will be out of line. The dotted line in the drawing on the doors is to be scribed which simulates double doors. I am sure you won't have any trouble with the makeup and, too, I am sure you will be delighted with these small structures on your layout.

The dimensional drawings are scaled in feet and inches to fit all gauges, however, stripwood notations are of actual size for HO gauge. All models are made up with Northeastern milled basswood and a list of the material is found in these pages.

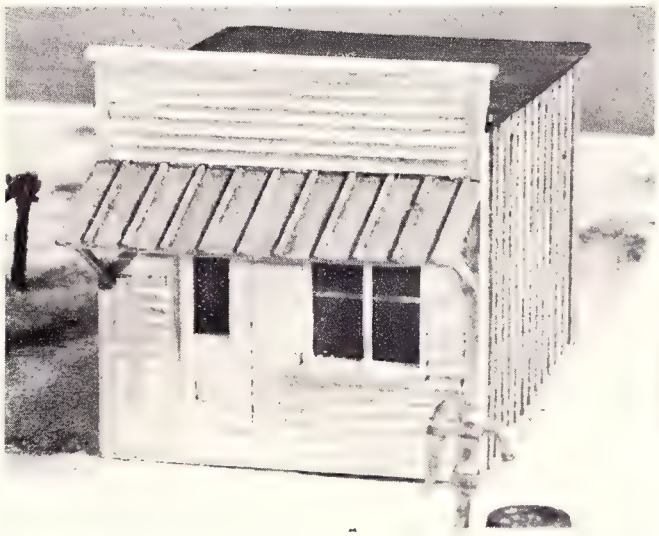
Construction

Fig. 1—Unit A—Cut out the walls and awning according to dimension and material used. The six inch square (1/16 x 1/16" strip) corner trim is used on the front wall only. Cut door and window openings—glue trim (1/32 x 1/16" strip) in place and assemble—cut a roof piece to fit (use Strathmore or stiff card) and glue in place. Add the doors and celluloid windows. Affix coping and awning. The front of the building is painted a dirty white and the sides and rear is weathered with brush wash. The roof is black and scribed to represent tar paper. Do not add side walk at this time.

Fig. 2—Units B & C—You will note in this figure that the front of Units B & C is made up into one piece and the side and rear components are cut out separately.

Using Strathmore board cut out the cardboard inner frame according to dimensions. Add the stripwood trim according to detail in the LOWER HALF drawing. Cut all components for the UPPER HALF according to detail—assemble and attach both HALVES together as illustrated. Add trim to window of upper half. Paint this double front a dirty white. Add celluloid windows and set aside.

Cut out the rear walls of Units B & C according to dimensions—add the 6" square corner post (1/16 x 1/16" strip) to walls as illustrated and glue all door and window trim in place, also add the scribed doors. Place these rear walls up against the rear side of the front walls and pencil line the roof pitch, which indicates the loca-



Front and side views of Building A reveal the simplicity and charm of the old west, making such structures ideal for pleasurable modeling. Building could be used as real estate office, sheriff's office. Author has made buildings removable from their earth type base.

tion of the roof interior bracing. Weather the rear walls with brush wash and add the celluloid windows.

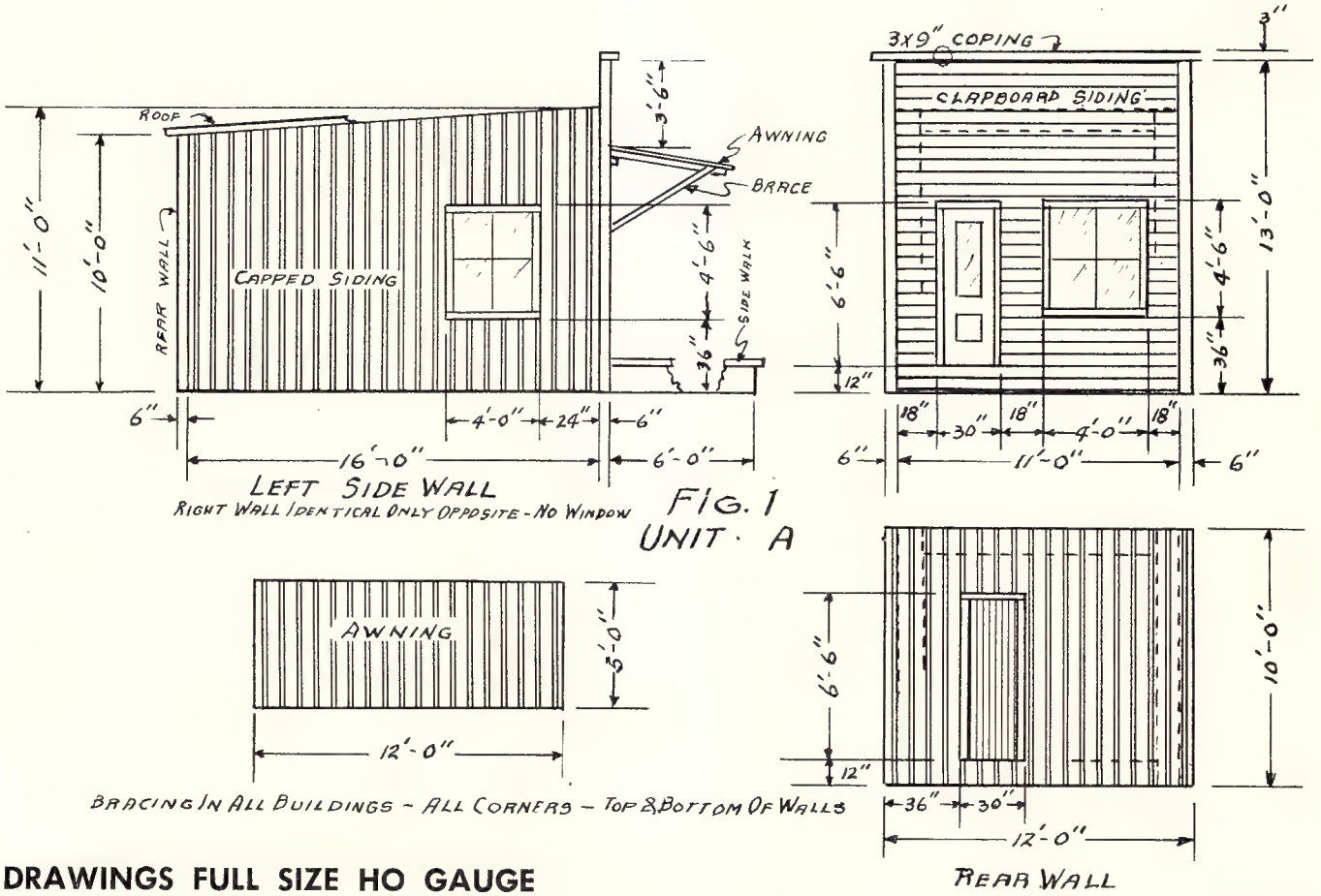
Fig. 3—Cut walls for both units according to detail—weather with brush wash—add celluloid windows to left wall of Unit B. Now we can assemble both units into one. Attach rear and side walls of Unit B to the front wall. Use plenty of interior bracing and affix roof ridge strip.

Unit C has only one right wall, therefore glue interior bracing on the outside surface of the right wall of Unit B—to support the roof and rear wall of Unit C. Add the rear and right side wall of Unit C—also the roof ridge strip. Cut roof pieces for each unit to fit from Strathmore board and when dry add the Walthers shingles, when the shingles have dried weather with brush wash.

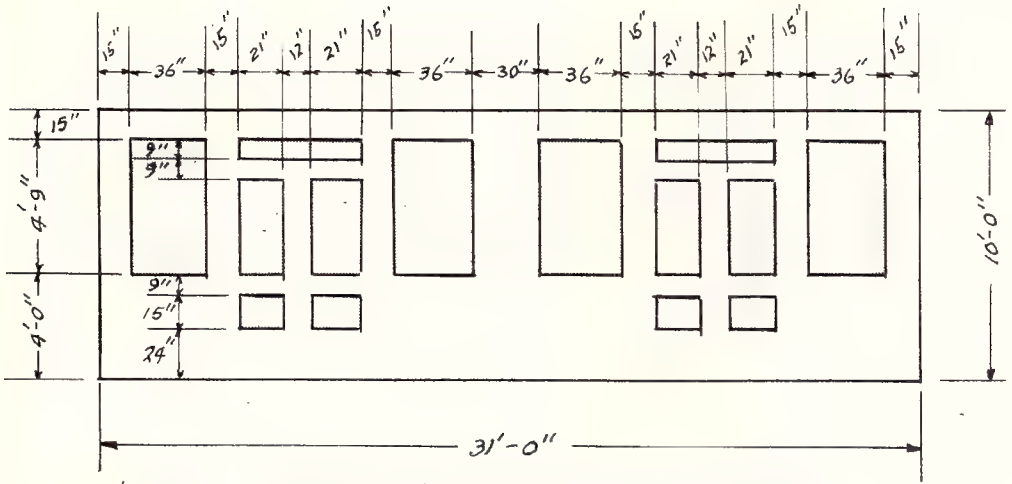
Fig. 4—Unit D—The method of construction for the front of this building is the same as was used for the double front in Fig. 2. Also the procedure of assembly is the same—use plenty interior bracing—to make windows translucent in all buildings sand the inside surface of the celluloid piece. To strengthen the fronts of all buildings below the large windows—use 1/16 x 1/2 inch strip across front—this strip also serves as the bottom panels of the double front doors.

Make up sidewalk according to detail—weather with brush wash and attach to fronts of all buildings. Make up three chimneys—scribe lines to represent brick, paint box car red and affix to roof ridge of Units B-C-D.

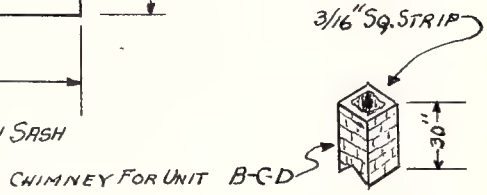
For the proper effect on your layout—place these buildings in a row—as you see them in the photograph.



DRAWINGS FULL SIZE HO GAUGE

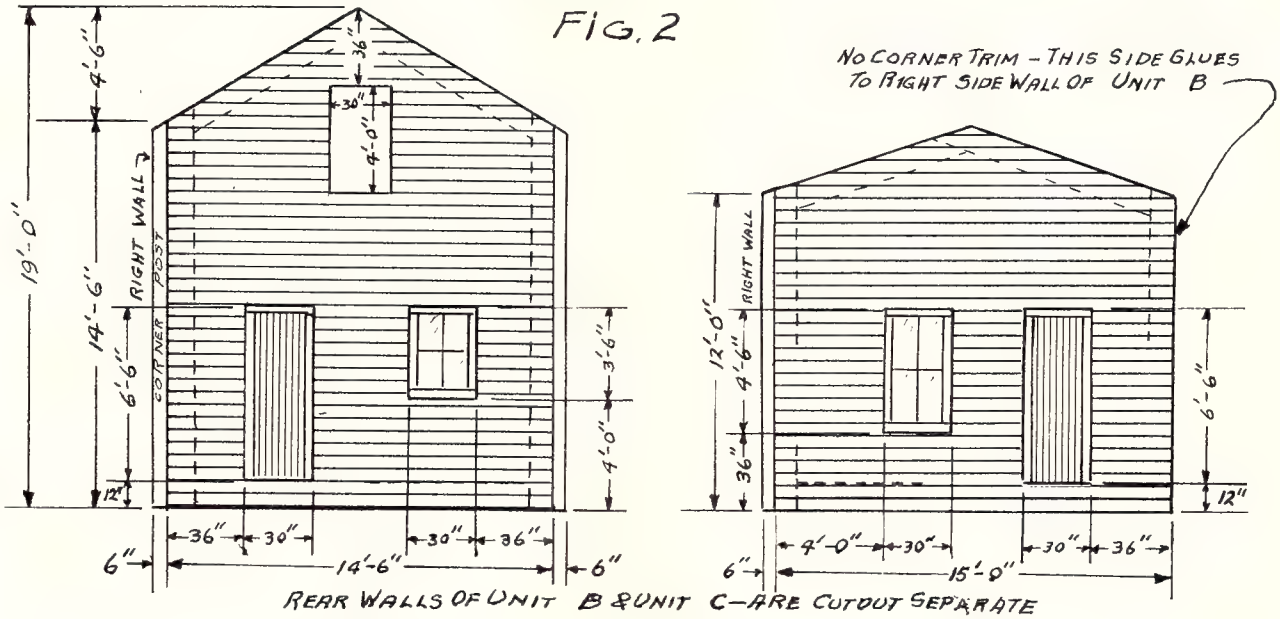


LAYOUT OF CARDBOARD INNER FRAME FOR DOORS & WINDOW SASH
CUT-OUT SHADED AREA ONLY

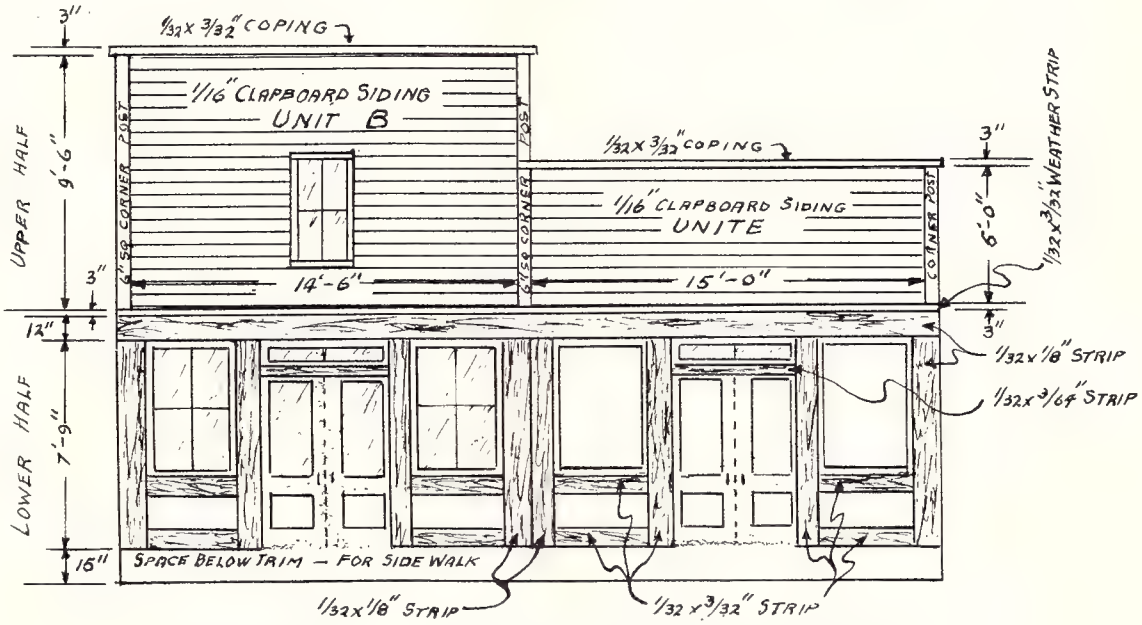


CHIMNEY FOR UNIT B-C-D

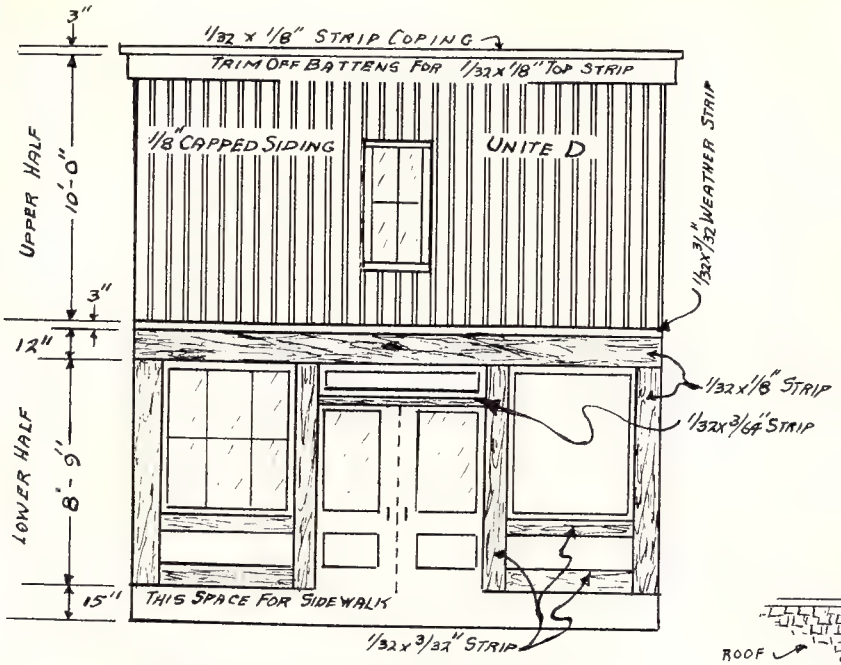
FIG. 2



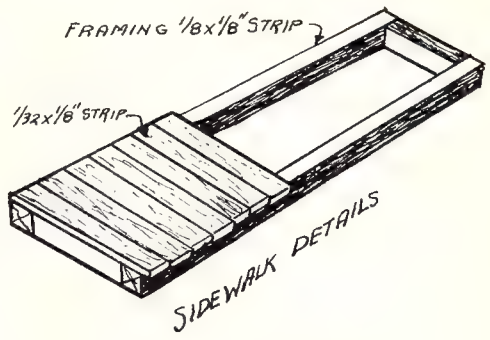
REAR WALLS OF UNIT B & UNIT C - ARE CUTOUT SEPARATE



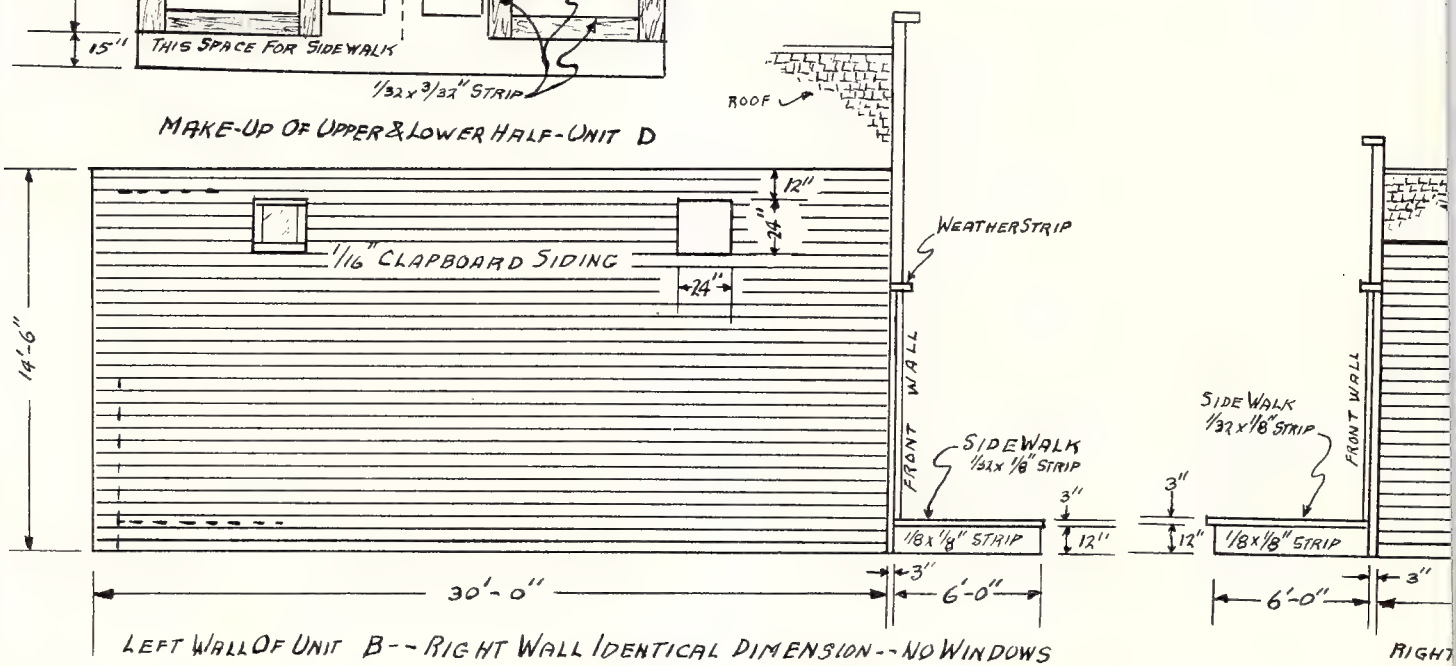
DOUBLE STORE FRONT -- SHOWING MAKE UP OF UPPER & LOWER HALF



MAKE-UP OF UPPER & LOWER HALF-UNIT D



SIDEWALK DETAILS

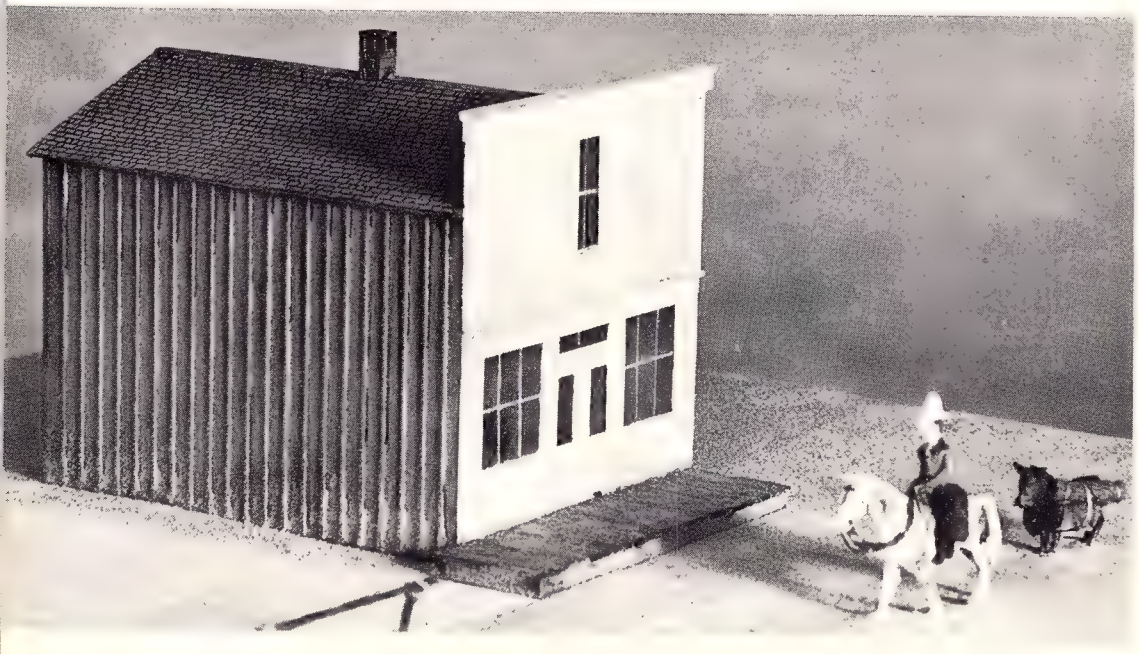


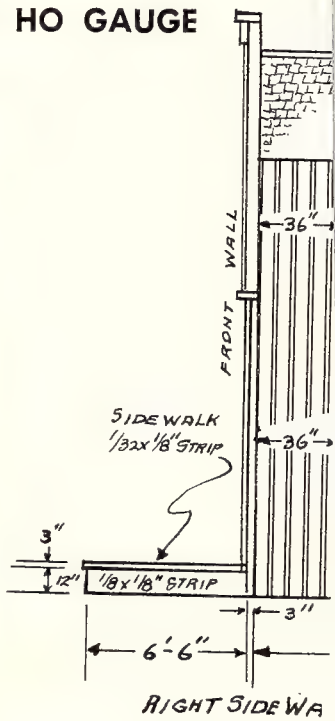
LEFT WALL OF UNIT B -- RIGHT WALL IDENTICAL DIMENSION -- NO WINDOWS

RIGHT

Unit D is largest of the four structures, could be used as general store, restaurant, or even office building for railroad, stage line. or land company. Notice Destry riding into town with his burro. Took him a month to get from Gila Bend to Georgetown, near milehigh Denver.

DRAWINGS FULL SIZE HO GAUGE





RIGHT SIDE WA

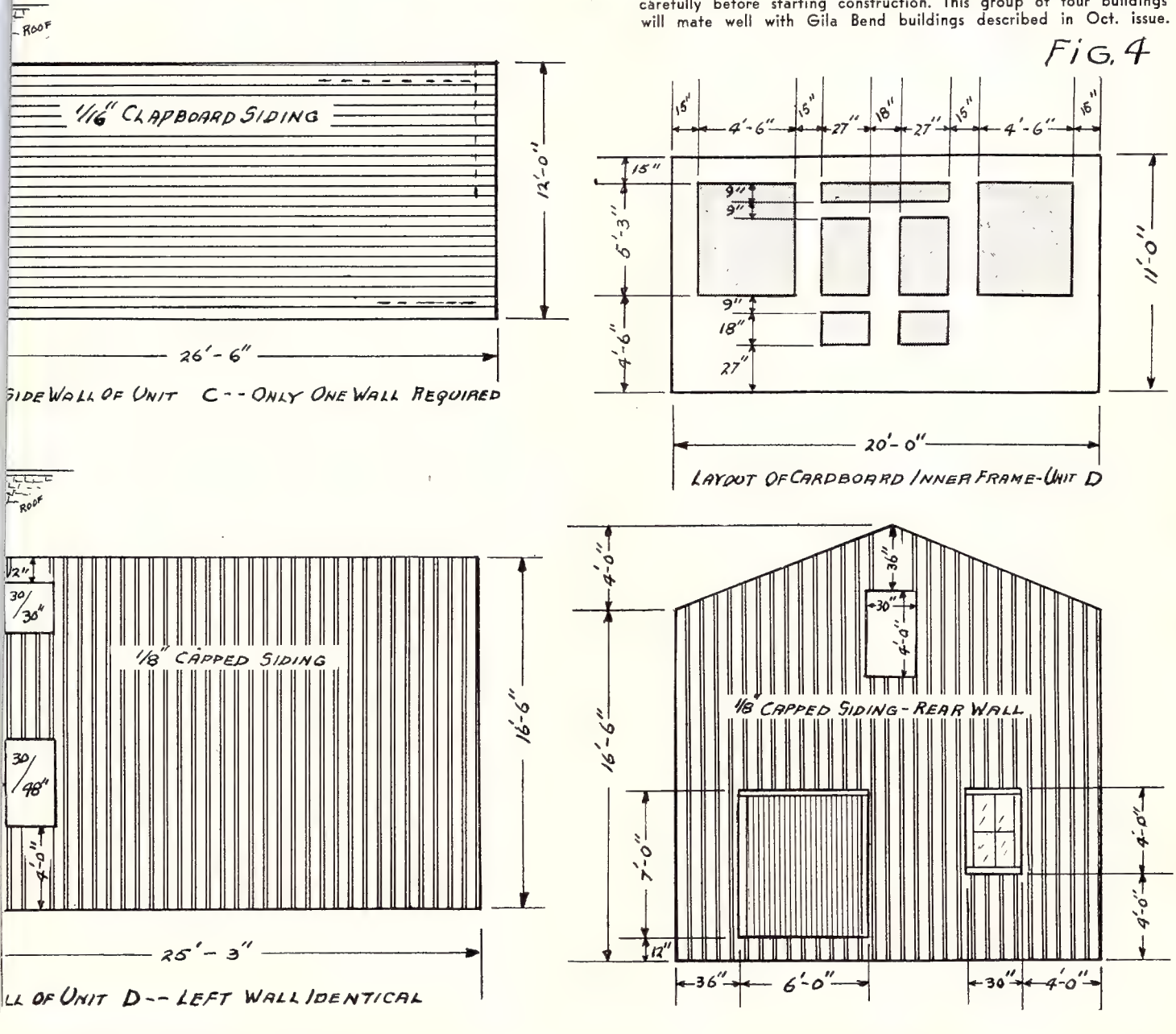
MATERIALS

3 pieces 1/32 x 1/16" stripwood
2 pieces 1/32 x 3/32" stripwood
1 piece 1/32 x 3/64" stripwood
5 pieces 1/32 x 1/8" stripwood
5 pieces 1/8 x 1/8" stripwood
1 piece 3/16 x 3/16" stripwood
1 piece 1/16 x 1/16" stripwood
1 sheet 1/16" clapboard siding 1/16" laps
1 sheet 1/16" capped siding 1/8" caps
2 sheets Walthers shingles No. V176
A 10" square of Strathmore board, celluloid and glue.

Fig. 3

Structures B and C are more detailed than Structure A, are permanently joined. Method of forming front wall detail should be studied carefully before starting construction. This group of four buildings will mate well with Gila Bend buildings described in Oct. issue.

Fig. 4



EARLY in the days when street railways honeycombed the towns and cities across the country, alert managers of the more enterprising lines realized that their properties had access to industrial areas not directly serviced by steam roads. Factory sidings, spur tracks and team yards were built in conjunction with the necessary railroad interchange connections, creating a service that might be called "trolley switching." This operation was generally profitable since most of the work could be done at night when the tracks and powerhouse were nearly idle and in many cases outlasted the passenger business.

Of course the regular interurban lines had built up an extensive freight business of their own based on the use of specially designed box trailers interchanged along their lines, but this service was of no use to isolated city lines not connected with the interurban networks. Therefore the term "trolley switching" is meant to cover the handling of standard steam road cars over street railway lines to yards and sidings.

Since most of the city lines were built with sharp curves conforming to the streets, steam road cars could not be hauled when coupled in normal fashion so auxiliary coupling devices were made up to permit passage over city streets.

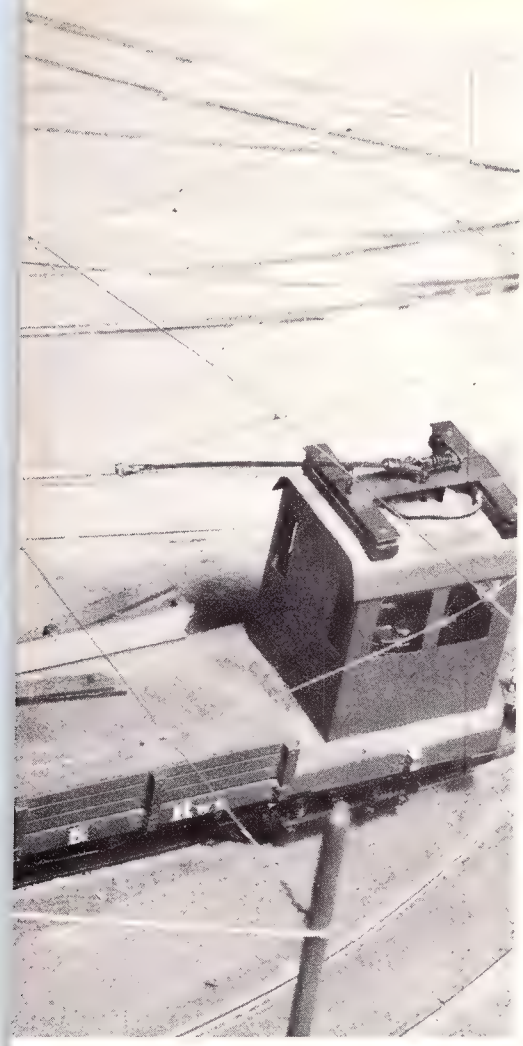
The very reasons that caused the street railways to adopt trolley switching have their counterparts in the model trolley field. Many club layouts have trolley lines that could tap an interchange yard and build a few sidings along their city and country tracks so that an interesting and cooperative function would be added to the overall club activities. Also, owners of home trolley lines who encourage model railroad visitors will find pleasure in being able to pull the prize box cars or official "varnish" proudly offered by their guests over the home line in good fashion.

Some model trolley lines are built with railroad curves throughout so as to avoid the coupling problem, but in a sense they miss the true feeling of street railways with the cars screeching around tight curves. Other lines have a few standard freight cars fitted out with wide swinging couplers but this merely limits the activity to such cars and is certainly not the answer for interchanging cars at random.

The difficulties encountered when standard cars with non radial couplers are warped around a sharp city curve are illustrated by the sketch showing a locomotive cut into the middle of a four car train. Note that cars No. 3 & 4 are together on the curve and that their adjacent couplers meet but do not face each other properly so as to permit coupling. Normally there is sufficient slack or looseness between knuckles when coupled to allow a small amount of angularity but certainly not enough for this sharp curve. The couplers between the locomotive and car No. 3 not only lack sufficient angularity, they don't even meet. Hence there is a definite offset. An even more pronounced offset will be found between cars pulling through an S or reverse curve.

In real life the electric railways overcame the problems of excessive angularity and offset by using an extension drawbar, sometimes called a shackle bar, which was taken directly from the early railroad link and pin coupling. The first automatic couplers on railroad cars were provided with slotted knuckles and pin holes so that link and pin connections could be made with the old cars still in service. When the use of automatic couplers became universal, the slotted knuckles on railroad equipment disappeared in favor of the solid knuckles we have today.

The slotted knuckle was retained on interurban locomotives and work cars however, so that shackle bar couplings could be made with railroad cars. To do this, a bar was pinned in the slotted locomotive knuckle. The other end of the bar was then pinned to the car coupler by the simple process of removing the solid knuckle, then using the knuckle hinge pin to hold the bar end in place. The shackles were forged from bar stock with a hole in each end to receive the coupling pins, and they were of sufficient length to provide the necessary off-



COUPLINGS

for trolley and industrial switching

Here's how O gaugers can operate standard scale freight cars on sharp trolley and industrial curves, retaining prototype operating procedure.

by the Long Valley Electric Railway

Staff Photos

set required on the sharpest curves. An extension air hose to connect the air brake lines completed the assembly.

An early attempt by the Long Valley to use the shackle bar coupling was reported in the April 1946 issue of MODEL CRAFTSMAN. In this case locomotive and car couplers were actually reworked to have slotted knuckles with pin holes so that prototype couplings could be made. However, this realistic method admittedly took a lot of doing, bad enough in O gauge but definitely a jewelers project in HO.

A far more workable scheme for bar couplings popped up one night during the annual show of the Westfield, N. J. club when its trolley subsidiary was operating visitors equipment, much of which would not couple on the sharp curves found along this line. A new style shackle bar was quickly made up by mounting dummy coupler heads to swivel on the ends of a bar with wire guards arranged to prevent the heads from falling through the mating couplers. This new extension drawbar was then simply dropped in place between any two standard non radial couplers and the combination could then handle any curve on the line. It was a memorable occasion when Gus Hedin's beautiful "Jones & Lobaugh" tank car opened trolley switching on the United Electric.

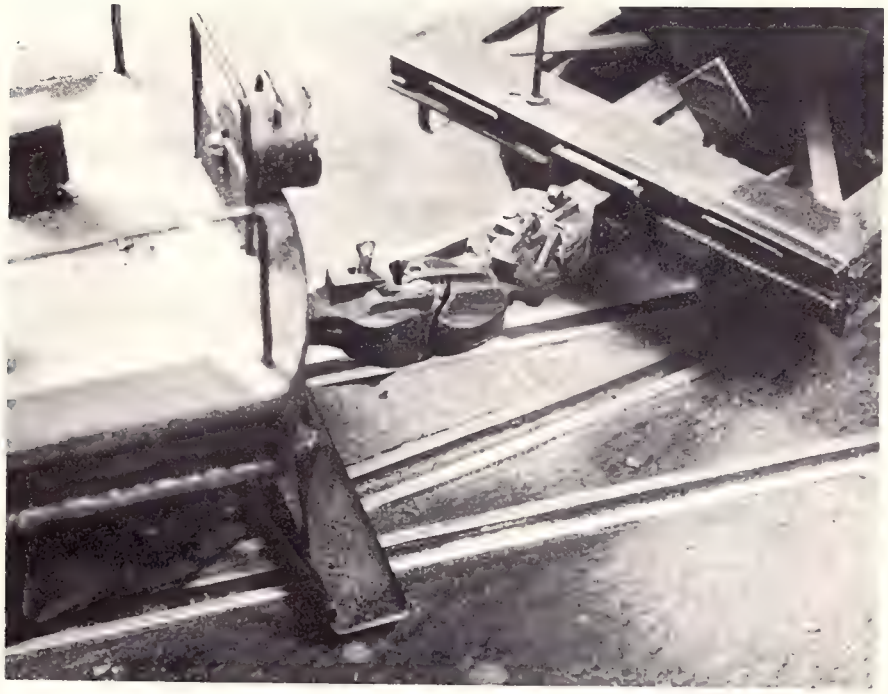
Figures D & E show the steps in the construction of this shackle. The materials required are two old dummy coupler heads, a paper clip, and a strip of 1/32" brass or steel sheet for the bar. A nail shank, flattened on both ends, will do nicely for the bar. With regard to the coupler, first file off the dummy lift pin. Then drill No. 63 down through the head where the lift pin hole was supposed to be. Next drill a shallow No. 63 hole in the knuckle lip where a flag socket is normally found. Some dummy couplers have indentations to resemble flag sockets that can be used as drill guides on the lips. Now the coupler shank can be cut off close behind the head and a horizontal hacksaw cut be made into the head slightly beyond the lift pin hole as shown. Figure F illustrates a bar cut from sheet stock. A ½" length between the end holes, drilled out No. 63, will be sufficient for most requirements. Round the bar ends so that the coupler heads will be able to turn through a wide angle. Swivel pins, shown as Figure G, are fashioned from the paper clip. The top is bent over to engage the lip hole thus forming the guard. Then with the bar end in place, insert the swivel pin, pull it down tight and bend the lower end back between the lugs on the coupler bottom, after which the surplus can be clipped off. A completed shackle can be made nearly as fast as it can be described. In appearance it is somewhat bulky but it does the job to perfection and is quickly installed when trains are being made up or coupled.

The short bar illustrated by Figure J has two coupler heads mounted on a bar as close together as possible. One end of the bar proper, Figure H, is square so that the head mounted on this end will not swivel. The other bar end is rounded to permit its head to turn freely. This particular arrangement takes care of the situation found when a full radial interurban coupler is to be connected with a standard non-radial coupler for switching. If a long bar were to be used when pushing, the whole assembly would jam over to one side to derail the car or engine. The short bar just described cannot turn sideways so it acts as a swivel head for the radial coupler providing the necessary angularity and offset.

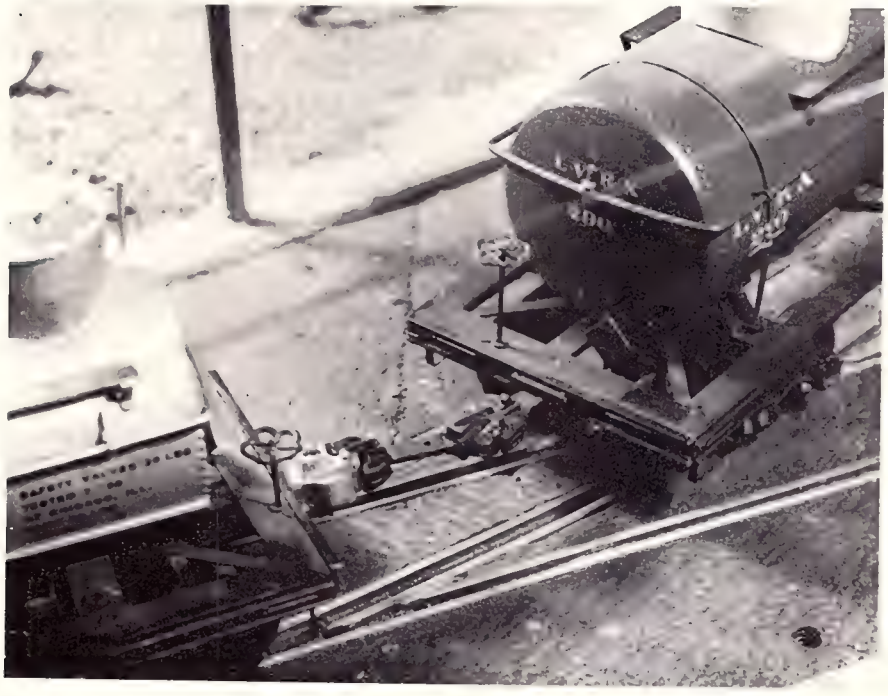
In service use the long bars between any two standard non-radial couplers such as between cars and the short bars to connect radials with standard couplers.

A check with old trolley locomotive plans and photographs revealed a special form of coupler and drawbar assembly that permitted locomotives so equipped to make direct connection with standard coupler cars on sharp curves. This device consisted of a radial drawbar having a pocket at the end into which a short shank coupler of standard variety could be pinned. The pocket was somewhat pie shaped so that the coupler could swivel freely as needed. This was fine for single en-

COUPLING for trolley and industrial switching



United Electric freight motor squeals through a sharp city curve and switch, dragging with it a standard railroad tank car. Such freight movements are simple with use of shackle-bar as shown in Fig. J, page 28. Shackle-bar permits extra coupler swivel, prevents binding.



Another type of shackle-bar, longer than the device shown at top, is especially useful when several freight cars must be operated in a train on sharp curves. Most cars have sufficient truck swivel to operate over trolley curves. Shackle-bars are used on real trolley lines.

gine service but if two such locomotives were coupled for multiple-unit operation, the unrestricted swivel of the coupler heads would allow the drawbars to jam over to one side when pushing with dire results.

The famous Illinois Traction System got around this difficulty by using a variation of the swivel head assembly. They provided couplers with two holes in the short shank, one close by the head and the other further back along the shank. When the coupler was pushed deep into the pocket and pinned through the nearest shank hole the resulting unit became a normal radial assembly with a rigid coupler head, but when the coupler was pulled out of the pocket to be pinned at the second shank hole, the head was then free to swivel and so be directly coupled to standard cars over sharp curves Cars thus fitted could be used in any service.

A model of this device would be open to the serious objection that loose pins and coupler heads could easily be lost when cars so equipped are upset on a layout. By rearranging the elements as in Figure A, an adaptation of the Illinois Traction device can be made that avoids this fault. Note that a permanent swivel pin holds the coupler head fast in the drawbar pocket while a separate locking pin fastens the head rigid in the pocket for normal radial work. When the locking pin is removed, the coupler head is free to swivel for use with standard couplers. The locking pin can be secured from loss by attaching a short length of chain as noticeable in the photo.

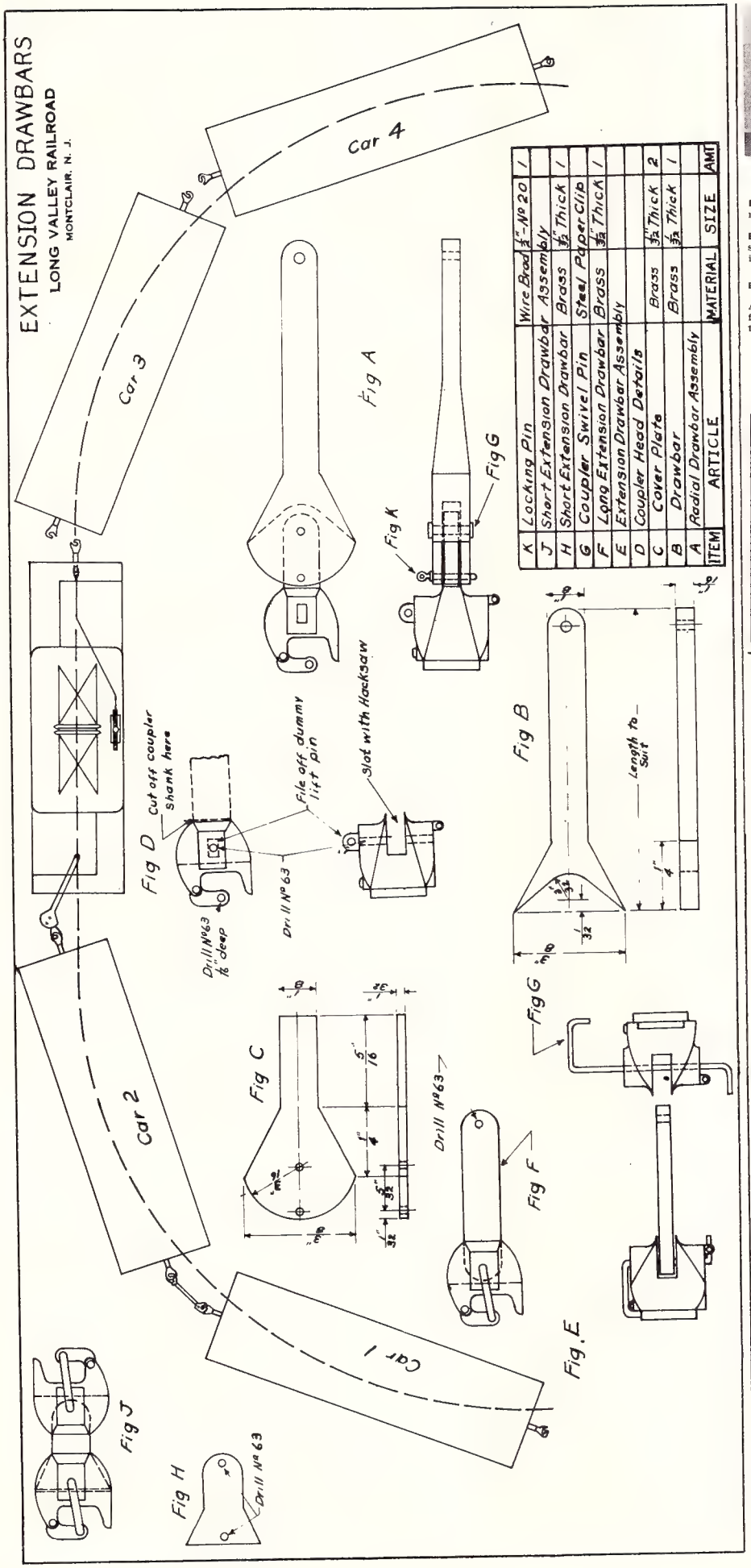
Should you wish to make a double jointed coupler unit of this style, cut a drawbar proper from 1/16" thick steel or brass to the details of Figure B. A bottom cover plate, per Figure C, is then prepared from 1/32" thick brass or steel and soldered in position on the drawbar. The top cover plate, duplicating the shape of the bottom plate is then soldered in place. Make sure that the holes in both cover plates line up properly. If the solder flows too freely on the inside of the resulting pocket, a small Swiss file can reach in to clean it up. Now the coupler shank can be prepared. First cut to length and round the end, then file down the thickness to approximately 1/16" for an easy fit in the pocket. The holes in the cover plates can be used as guides to drill the No. 63 holes in the shank. A No. 20 wire brad will make a good swivel pin. It can be soldered fast to the bottom cover plate and trimmed off. The locking pin is another No. 20 wire brad.

When it comes to motive power for trolley switching service it might truthfully be said that anything on wheels with motors has been used at some time. Railways with black ink on their ledgers often purchased regular switch engines such as Baldwin-Westinghouse or General Electric steeple cab units ranging from 25 to 50 tons in weight. More commonly work equipment such as express cars, motor flats or locomotive cranes did the trick. Some companies could not resist the temptation to use demoted passenger cars. The old fashioned double truck city cars with their slow speed motors did well in this service.

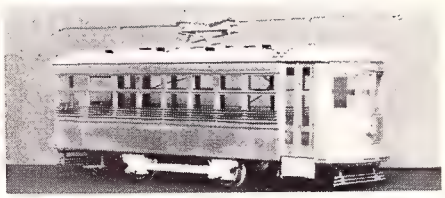
You will find that three or four cars are about the limit that can be hauled around tight curves. Your model cities and towns may well have a scale "ordinance" limiting trains to four cars so as to avoid traffic congestion.

EXTENSION DRAWBARS

LONG VALLEY RAILROAD
MONTCLAIR, N. J.



ITEM	ARTICLE	MATERIAL	SIZE	AMT
K	Locking Pin	Wire Brad	⅛"-№20	1
J	Short Extension Drawbar	Assembly		
H	Short Extension Drawbar	Brass	⅛" Thick	1
G	Coupler Swivel Pin	Steel Paper Clip		
F	Long Extension Drawbar	Brass	⅛" Thick	1
E	Extension Drawbar Assembly			
D	Coupler Head Details	Brass	⅛" Thick	2
C	Cover Plate	Brass	⅛" Thick	1
B	Drawbar			
A	Radial Drawbar Assembly			



NEW! HAND-BUILT O GAUGE BIRNEY

BIRNEY BODY with sides, ends and floor of brass, roof of wood, complete as shown **$14.50**

BIRNEY TRUCK with 24" scale wheels die-cast side frames, 12v permag motor, available either insulated for 2 rail or not insulated..... **$12.50**

Body and Truck available separately complete **$27.00**

A custom-building service is now available to modelers for the first time employing the skilled craftsmen of Japan to build anything **YOU** want in any gauge. Delivery about 4 months after order is placed. Write for details.

KEN KIDDER
Box 213, San Francisco, Calif.

GIANT 88 PAGE CATALOG
For O Gauge Model Railroaders

Combined Scale and Tinplate **75c**

Credit coupon in each catalog good for 75c with first purchase of $5.00

Greatest Variety in O Gauge

Steam Locos, Diesels, Cars and Parts Galore

ALL-NATION HOBBY SHOP
182 N. LaSalle St., Dept. RMC Chicago 1, Ill.

AS CLOSE AS YOUR MAIL BOX

Turbo Jet switch machines	$ 1.50
Idea 14" turn table	10.95
Rail Line NMRA couplers L/DG 25c-W/DG	.50
Kadee couplers L/DG 40c-W/DG	.50
Mantua flat car	1.95
Penn Line Atlantic	29.50
Mantua Shifter 0-4-0	15.95
Ulrich-Peaked end hopper (N&W)	2.90
Varney freight trucks #2290 pr.	.50
Globe box cars RI-GN-C&O	2.75
Mantua-Tyco & Penn Line ready to run	sets
Lionel Catalog ppd. (refundable)	.25
Our HO Catalog ppd. (refundable)	1.00

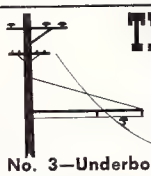
Order Your HO Equipment from:

SATTLER'S HO DEPOT
1510 CEDAR AVE. CINCINNATI 24, OHIO

"HO" Passenger Shed Kit (2-72' units) $1.00
"O" Passenger Shed Kit (2-60' units)..... $1.50

Send 3c stamp for complete listing

RICHARD A. LEE
719 Moore Street Bristol, Va.
Dealer Inquiries Welcome



TROLLEY TALK

Trolley modelers of all gauges should read these illustrated articles on "Realism through Details."

No. 3—Underbody Parts before 1917
No. 4—Modern Car Underbody
No. 5—Pilots and Fenders
No. 6—(Ready Novembr 15th)

20c each, 5-issue subscription $1.00

Send stamp for new illustrated sheet about Wagner O gauge trucks.

WAGNER CAR COMPANY
59 Euclid Ave. Cincinnati 15, Ohio

clockwork by *BING*

Although the Bing Works produced the first HO commercial trains, they were even better known for their fine mechanical O gauge tinplate line which was exported to this country in numbers.

by Case Kowal

IN the early days of the railroad-conscious Twentieth Century, the New York Central Railroad originated a crack Chicago-to-New York passenger steam flyer appropriately called the "Twentieth Century Limited". This sleek all-deluxe-pullman train received tremendous nationwide publicity and the name "Twentieth-Century Limited" became synonymous with high speed first class rail transportation, which was then the only real means of accepted commercial travel.

Across the great waters of the Atlantic Ocean, the Bing firm, an established German manufacturer of mechanical toys, constantly on alert to expand its growing export toy trade, was quick to grasp the profound opportunity and share the popularity attributed to the "Twentieth Century Limited" in America.

The German firm lost little time in bringing an O gauge mechanical train set to the United States shores, that was to be one of the most remarkable toy copies of this famous New York Central train made available for several years, to leading toy retailers.

The fine quality and workmanship of these Bing toy clockwork trains warranted their immediate success in what was already a highly competitive American toy market. Many prominent business men in the toy field wondered how the German made Bing trains could compete in price with established Ives and American Flyer clockwork trains that had such a firm foothold on the toy train market with domestic blessings.

What was perhaps even more remarkable was the fact that actually there were very few jobbers or Bing representatives in the country at the time and factory service and repair of these Bing engines was virtually unheard-of when these trains began to appear in the American household. In the face of these handicaps, huge shipments of Bing products came steaming into American ports, breaking through tariff barriers, only to be snapped up by the big mail order houses and city department stores that had their eyes fixed on the annual Christmas toy-selling season. It was strangely wonderful that within a relatively short time, Bing mechanical trains became the talk of the famous Fifth Ave. toy row in New York.

Among the merchants of toy row, it became apparent that price alone was not the only incentive that spurred the sales of Bing train sets. The excellent mechanical features of the Bing locomotives were quite obvious to any one who took the time to look into the clockwork motor unit. A careful study disclosed the intricate Bing mechanism that became even more apparent to one who had previously owned American-made clockwork engines and was thus able to make comparisons.

By European standards, the Bing iron castings were much lighter in weight than those found in any other engine of the same type made in America. Bing castings were known to be sharp in detail and delicate in design, yet they seemed to possess the necessary strength for reasonably hard use in the hands of children. Although the secret casting process used by the Bing firm in Germany seemed to be different from that used by American manufacturers, the lighter weight of the Bing iron castings did not affect their strength to any great degree.

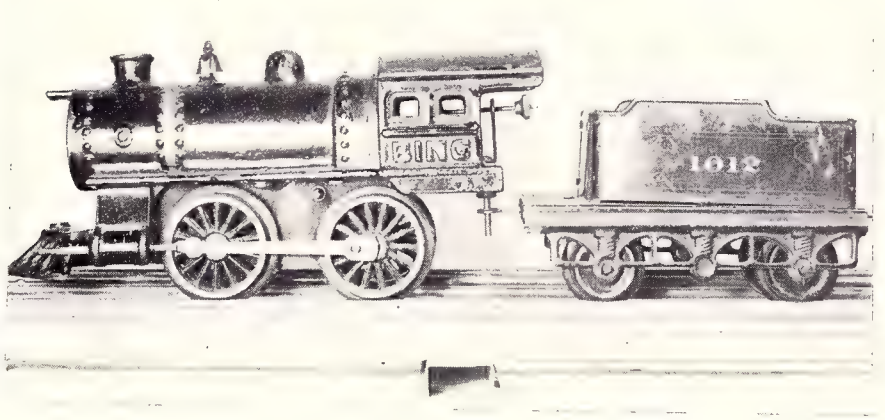
On close inspection the Bing clockwork components looked as though they were precision built. They had such fine machine tolerances that it was almost difficult to believe that these engines were made on a mass production basis like those in America. The clockwork steel used in the fabrication of the spiral spring was made of the finest tempered German blue steel surpassing that of any American-made spring in size and weight.

When fully wound or compressed, these fine steel springs were capable of driving the Bing engine with its string of cars with amazing speed and power. To avoid the engines from jumping the track at curves, all Bing engines had a built-in speed governor which was preset at the factory and was non-adjustable, thereby making it foolproof in operation. Like similar American models, Bing clockwork locomotives came with start and stop levers while the more expensive models were equipped with reverse levers all conveniently located in the engine cab.

The mechanical track used by Bing was almost identical with that made in our own country. In general the size and shape was the same, the only real difference was in the weight and construction, Bing track sections appeared just a little lighter and thinner then that used (for example) by Ives and American Flyer. The Bing people were one of the first to manufacture fractional track sections such as half-and quarter-track lengths.

Unlike Ives and American Flyer locomotives, Bing Locomotives left the German plant without any identifying numbers; at least it seemed that none of the clockwork engines had any numbers although the name "BING" appeared on every steam type engine cab. Just as strangely almost every tender had the number "1012" plainly lithographed on its sides.

While Bing of Germany had been manufacturing and shipping clock-



Bing locomotives rarely had identifying numbers on the engine and the tenders invariably were emblazoned with "1012". Engine and tender here were used on post World War I Twentieth Century Limited, dating about the same period as the firm's pioneer line of HO tinplate.

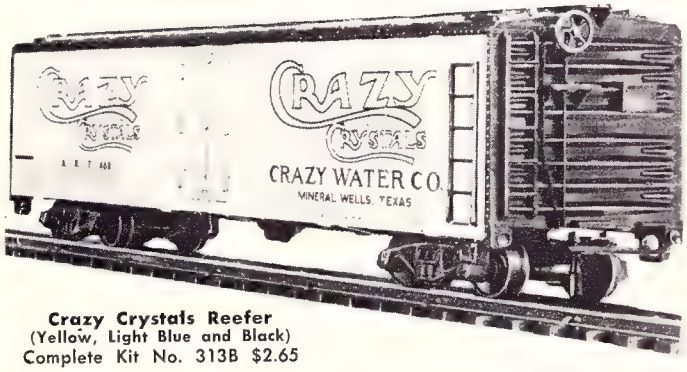
MANTUA OUTDOES ITSELF, AGAIN!

It is natural to expect great things of Mantua. No manufacturer has done so much to make model railroading dependable and satisfying. But wait until you see the latest achievements of Mantua engineering and manufacturing skill. Here are superb, advance design Reefers and Flat Cars—the finest equipment of its kind that ever rolled on HO rails—plus DCL an amazing Diffused Car Lighting Unit for your Mantua Streamliner. Yes, when you feast your eyes on these kits, you'll agree Mantua has indeed exceeded even itself.

New REEFERS

You've never seen such detail. Such realism. The construction is altogether new. Exquisitely multi-colored lithographed metal sides over sturdy molded bodies. The lettering is sharp and clear even to loading designations. And as a crowning touch of realism the door hinges and hasps are in embossed relief. Other features—you expect of all Mantua new series cars—are cast metal floors for roadability and free-swinging TYCO Trucks with Mantua Automatic Couplers.

Burlington Reefer
(Yellow, Red and Black)
Complete Kit No. 313A $2.65

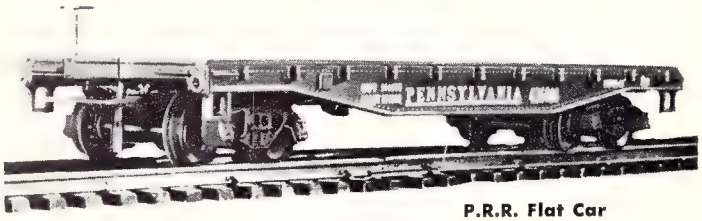


Crazy Crystals Reefer
(Yellow, Light Blue and Black)
Complete Kit No. 313B $2.65

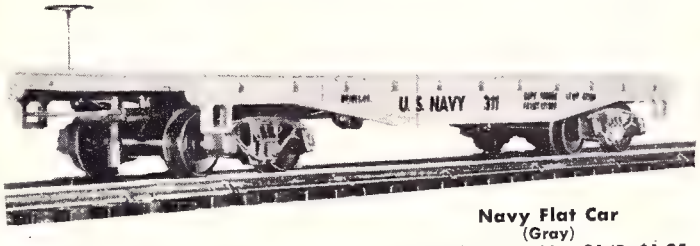
Borden Reefer
(Red, White and Blue)
Complete Kit No. 313C $2.65

New FLAT CARS

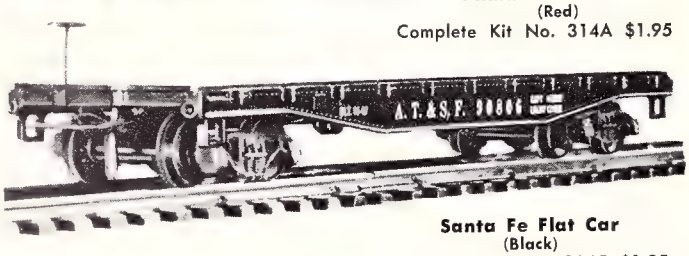
Something new and colorful has happened to Mantua's famous, performance-tested flat car. This little beauty now sports a highly detailed molded body lettered in your choice of three road names. Like all Mantua new series freight cars, it has a rail-hugging metal floor and free-swinging TYCO Trucks with Mantua Automatic Couplers.



P.R.R. Flat Car
(Red)
Complete Kit No. 314A $1.95



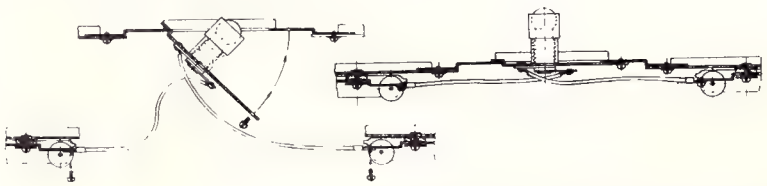
Navy Flat Car
(Gray)
Complete Kit No. 314B $1.95



Santa Fe Flat Car
(Black)
Complete Kit No. 314C $1.95

New DCL DIFFUSED CAR LIGHTING *for your* MANTUA STREAMLINE CARS

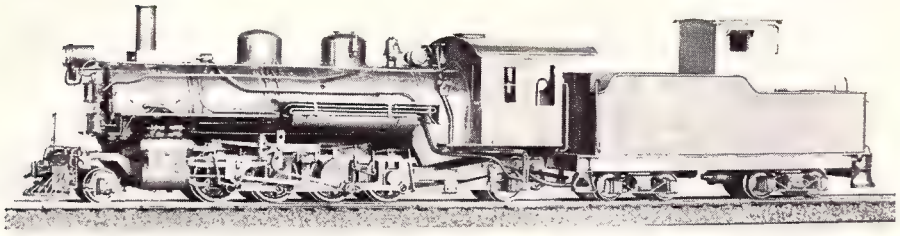
It's the prettiest sight on HO rails. Your Mantua Streamliner with every window aglow from end to end. DCL is different from any other car lighting system on the market. Instead of extreme brightness at the center over the bulb and end windows dim, DCL by diffusion casts light of uniform intensity through every window. DCL is reasonable in cost and a cinch to install. One screw fastens it to the car floor. Two screws connect it for power pick up.



DIFFUSED CAR LIGHTING COMPLETE KIT
(including bulb) **No. 797 $1.75**

SEE THESE MILES-AHEAD **MANTUA KITS** AT YOUR DEALERS TODAY.

MANTUA FIRST IN HO

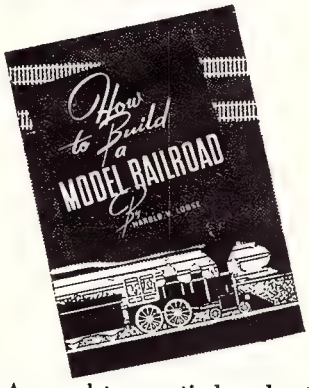


ON3 D&RGW Class K28 Outside-Frame Mikado. Hand-made custom model in all brass, imported, assembled complete, ready-to-run, not painted.

UNITED SCALE 合同 MODELS

Another outstanding "first" from United-PFM. Available in very limited quantities in On3 at $89.95 postpaid.

PACIFIC FAST MAIL P.O. Box 57 Edmonds, Wash.



HOW TO BUILD
A MODEL RAILROAD

This third Edition of HOW TO BUILD A MODEL RAILROAD has been completely revised and is right up to present day standards. It has many new plans and illustrations (more than 75 are included). "How To Build" will answer all the questions asked by the man who is starting a miniature railroad layout as well as the problems encountered when a model railroad has gotten underway.

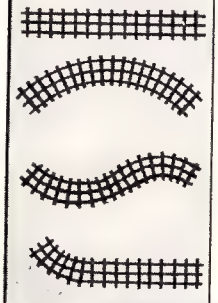
A complete, practical explanation of Model Railroading including track design and laying, locomotive and car construction methods, scenery construction tips and general information of model railroading to date.

Whether you are a beginner or an experienced builder, your library is not complete without this book. Price, postpaid, is $2.00.

RAILROAD MODEL CRAFTSMAN RAMSEY, NEW JERSEY

SCALE & TINPLATE TRAINS
now arriving on . . .
GarGrave's UNIVERSAL FLEXIBLE TRACKS

BENDS TO ANY CURVE



WOOD TIES
make it sound like a REAL train

AVAILABLE IN . . .
★ Regular or Stainless Steel, 2-rail, inside third rail and outside third rail.

GarGraves' flexible, universal, magnetic track mates with ALL 0, 027 and 072 gauge track. Constructed of steel rail, 7/16" high, with accurate scale wood ties. Patented construction eliminates spike heads, permits tinplate locos to run perfectly on scale track.

Free Send 3c stamp for complete GarGraves trackage facts."

NEW: "S" gauge trackage and switches . . . 3 rail "O", "0-27", "0-72" 90° crossovers and switches.

SEE YOUR DEALER OR WRITE TO . . .

Gardner, "THE TRAIN DOCTOR"
RAILROADING IS OUR BUSINESS—NOT A SIDELINE
2261 DEWEY AVENUE—ROCHESTER 16, N. Y.

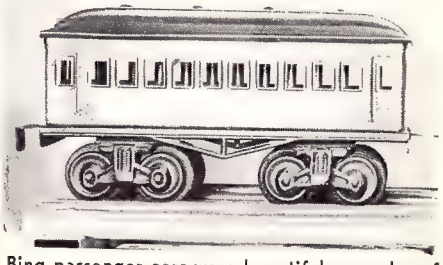
work trains to the United States as early as 1909-1910, the peak export years were not reached until some ten to twelve years later. It was during this growth period that Bing made so many different clockwork model locomotives.

As a general rule, the early models had cast iron machined wheels and usually an open ventilator on the engine cab roof; on the other hand, the later models had die cast metal wheels and engine cabs with plain roofs. In a sense this was in keeping with the progressive changes seen in Ives and American Flyer clockwork locomotives.

The accompanying photograph shows one of the medium priced O gauge wind-up locomotives made shortly after World War I. This engine, designed to haul the New York Central's Twentieth-Century Limited, measured 7¼" from the tip of the pilot to the end of the engine cab, and weighed 1¾ pounds without the tender or windup key. Almost all of the Bing clockwork engines were wound with a threaded screw type removable windup key. This was a peculiar bit of individuality as no other windup key could be used with the Bing mechanical engine.

The cast iron body of this 0-4-0 engine was made up from two half-pieces, each composed of pilot, steam chests, boiler, superstructure and engine cab. Unlike Ives and American Flyer engine bodies the Bing body castings were held together with three bolt-like rivets. One rivet passed through the front boiler plate section, and a second rivet passed through or across the upper part of the inside engine cab just underneath the roof. A third rivet passed across the floor of the engine cab. Except for the rivet that passed through the front boiler section, all were fastened securely and smoothly making them flush with the body so that they were practically impossible to detect. Since Bing used the same cast iron bodies interchangably for both the electric and clockwork type locomotives, a small round hole was provided for the wire leading to the electric headlight. The clockwork engines either had a dummy headlight or were entirely without one. Usually the higher priced variety had at least a dummy headlight, giving the engine a more finished appearance.

One of the more unusual features



Bing passenger cars were beautiful examples of lithography at their continental finest, are eagerly sought today by collectors. Export items above

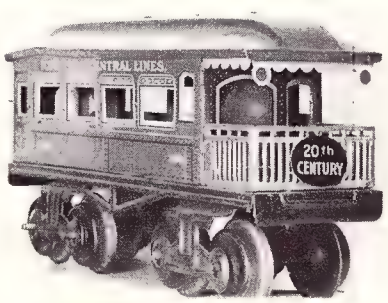
of the Bing engines not found on any of the American made locomotives were the special arrangement of the drive rod sections that passed into the cylinders of the steam chests. Actually these rod sections passed through one end of the cylinder and penetrated the other end of the cylinder. This drive rod arrangement gave the Bing locomotive plenty of action detail in operation.

The dummy headlight and the engine bell were never a part of the boiler casting. The dummy headlight was made of die-cast material, while the bell was made up of a brass stamping consisting of the bell proper and a bell hanger. All of the higher-priced engines had at least one nickle-plated boiler strap or band that harmonized nicely with the nickle-plated drive rods and the plated wheel rims with their 14 bright red spokes making up each of the drive wheels.

It is interesting to note that while Bing locomotives closely followed the models made in America, none of the Bing engine wheels were equipped with counter weights, which of course were found on just about every American model. Piping detail was another feature that seemed to be lacking on the German-made engines, and yet this detail was visible on all of ours. In some instances Bing took extra care to see that their engines would run without trouble. One example of this extra care was the use of a strong brace to help support the lever rods found inside the engine cab—levers that would receive hard use from owners of these miniature locomotives.

The three color lithographed Bing tender was a long body type and was made in either a popular U.S. four-wheel type or a six-wheel type found in European countries. Incidentally the stamped under frame for both the four and six wheel types was the same. Bing merely provided two additional axle holes, an axle and two wheels and the four wheel truck was easily transformed into a six wheel type. Inside everyone of these tenders was found an embossed sheet of metal representing a coal pile very similar to these found in American models.

Continued on p. 59



show typical American designing. Cars above are green with tan roofs; had hook type couplers, permitting coupling with American tinplate.

STREAMLINE PASSENGER TRAINS

Athearn IN MINIATURE

more RAILROADING FOR YOUR MONEY

more VALUE

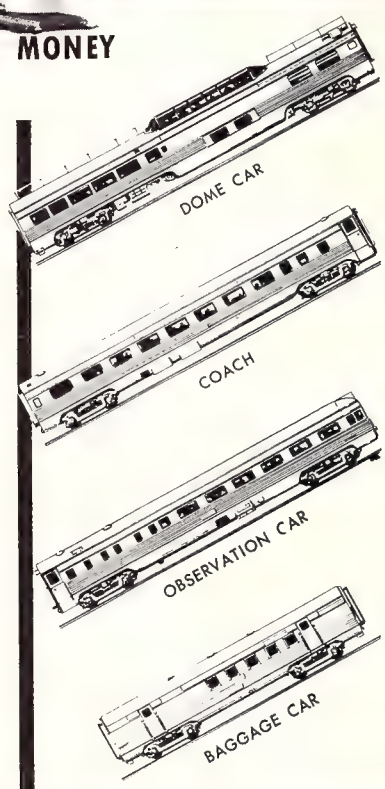
more ACCURACY AND DETAIL

Here's established ATHEARN quality and manufacturing precision, ATHEARN authenticity of design and detail . . . at new *low, low* prices! Now every rail empire can have modern diesel streamline equipment without straining the operating budget or causing the General Passenger Agent to scream for increased fares!

You've already seen the Diesel "A" and "B" units—you've admired their *new high* in detailed authenticity—their ease of assembly—now here comes the rest of the train highballing down the main line to you!

All plastic for greater detail, more economy, easier assembly. And you can get 'em in the form that suits *your* kind of railroading best!

- *Unassembled, undecorated* kits for those who want to add their own colors and lettering . . .
- *Unassembled*—but *completely decorated* kits (Pennsy or Santa Fe) for the modeler who wants to "build 'em and run 'em NOW"
- —Or you can have "A" and "B" units *ready-to-run*—for the "brass hat" whose main interest is *operation!*



KITS: Unassembled, Undecorated from 89c to $1.29
KITS: Unassembled—Pennsy or Santa Fe decorated . . . . . from $1.89 to $2.29
KITS: Powered Diesels—Pennsy or Santa Fe Decorated—in kits and ready-to-run, single or dual drive . . . . . from $11.95

Look 'em over—
They're available at your Nearest Dealer!

ATHEARN LOS ANGELES, CALIFORNIA

BARGAINS!

"WHAT MAKES A LOCO GO"—

The innards of a steam locomotive brought to life so that any one can understand the principles and mechanisms of a real engine. "What Makes A Locomotive Go" is highly informative yet easy to understand. Cloth cover, contains 112 pages.

Regular price $2.75
Clearance Sale price 1.35

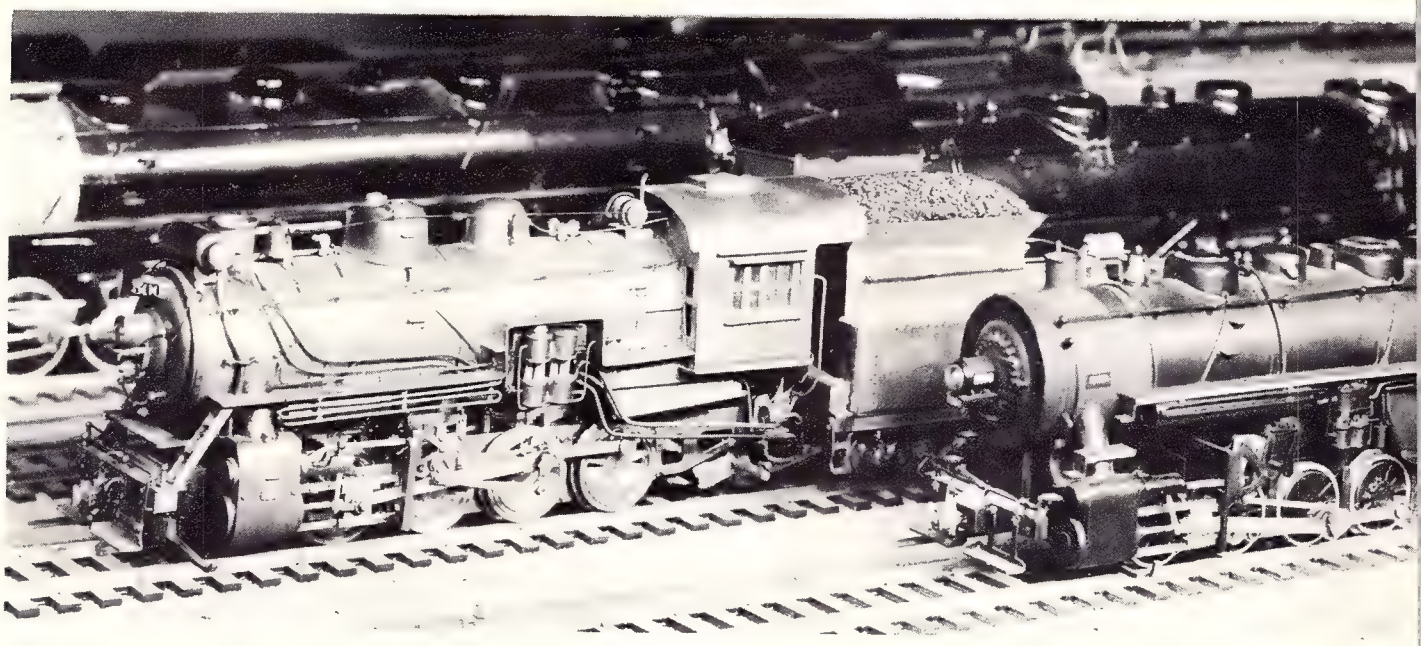
"FUN WITH A MODEL RAILROAD"

In cartoon style, Fun with a Model Railroad relates the trials and tribulations of model railroading. Light reading, it makes a swell addition to any library. Contains 48 pages of cartoons, heavy card cover.

Regular price $1.00
Clearance Sale price 50c

SUPPLIES LIMITED • ACT FAST

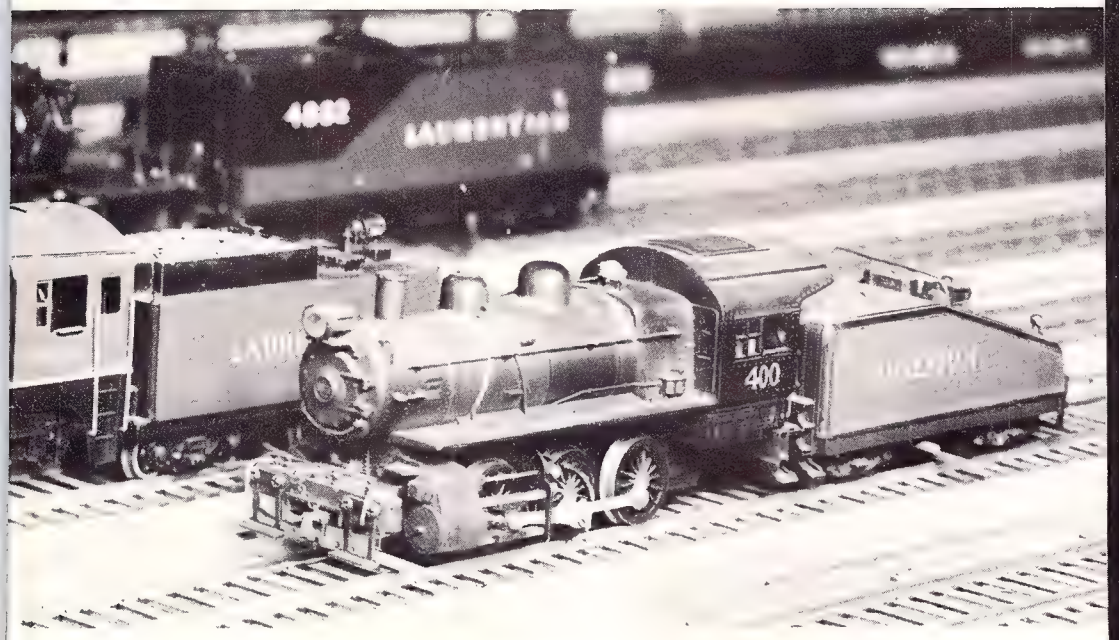
PENN PUBLICATIONS, INC.
Ramsey 14, New Jersey



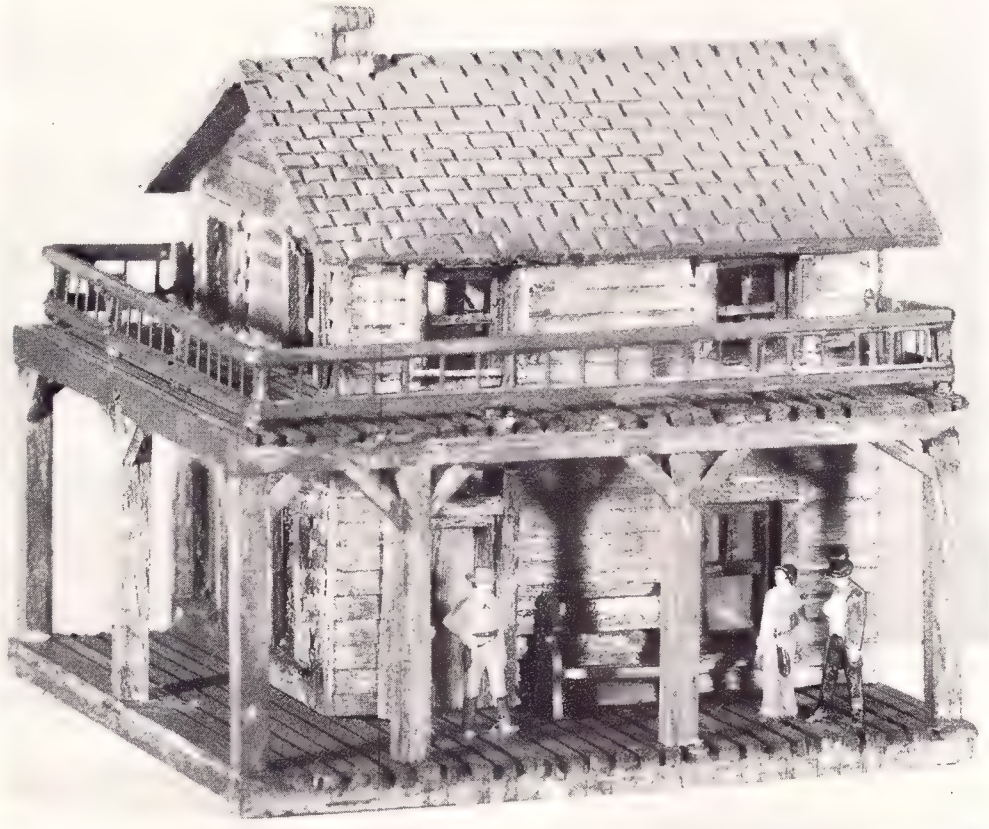
Our Canadian friends up north don't take a back seat to anybody when it comes to model railroading, even though they are bothered with high import duties which make kits, largely American made, very expensive. Stuart R. Dunlop, of Montreal, P. Q., owns these O gauge switchers.

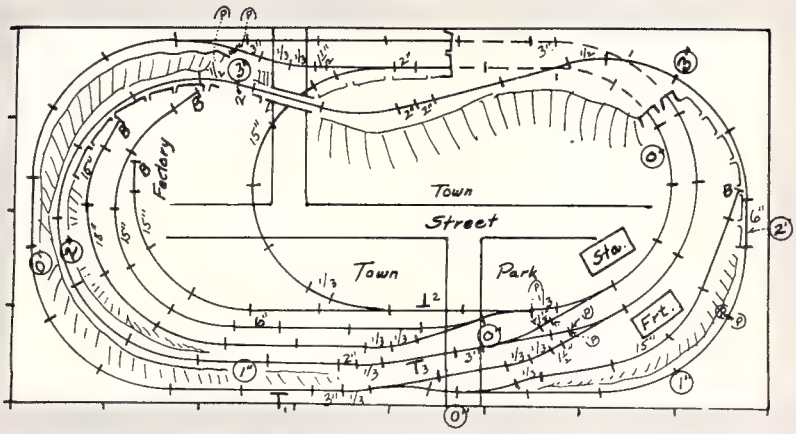
The live steamers contend that models ot steam locomotives should be just that, not disguised trolley cars. Almost anybody having his own home could find room for a live steam outdoor loop. The engineer is Mrs. Irene Lewis, of Little Engines; the crew includes Bob Harpur, Mary Myers, Connie Harpur, and Jerry Sanders. This looks like fun!

YOUR NABORS PIKE

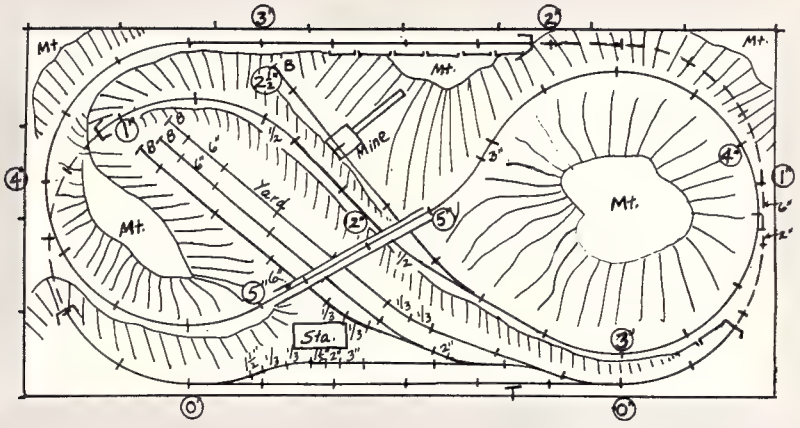


Another Montrealer, David Fieldman, sends in this photo, purporting to be the oldest house in the town of Galena, located on his Galena & Mahaffey Railroad. The weathered appearance was obtained by painting the entire model with Floquil brown paint, then rubbing it off with Kleenex. Shingles were burned in. Plans appeared in RMC Mar. '55.

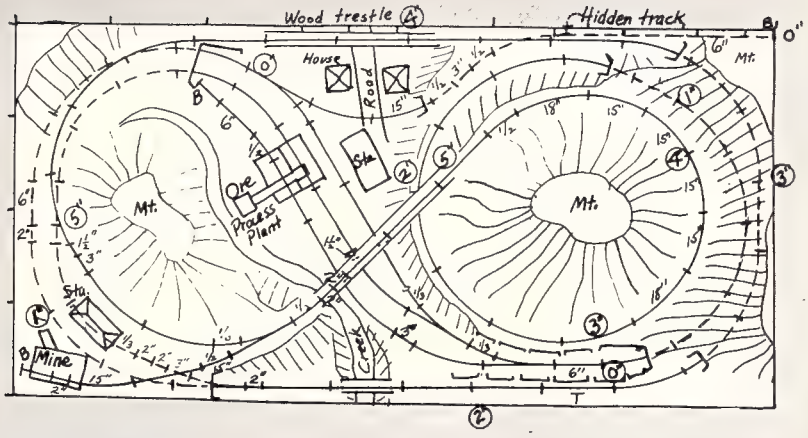




SUSQUEHANNA & EAGLES MERE RR 4′ x 8′



CAROLINA, CLINCHFIELD & OHIO RR 4′ x 8′



HUNTINGTON & BROAD TOP MOUNTAIN RR

4′ x 8′

I HAVE drawn up a series of panel sized HO Snap-Track layouts for these holiday season issues of RMC and was all set to present the simplest first, starting with a circle, then adding a few switches, a few more switches, and so on. But toward the end of the series of pikes I had a few rather complicated ones at least as far as number of levels go, altho the size was still within a 4 x 6 or 4 x 8 panel of Homosets. I was going to work up to these, presenting the easy ones in the November RMC, more complicated in December and January. But then the thought struck me that to dump a complicated layout in your laps with Christmas hard by would make a lot of fellows burn the midnight oil in order to have this whizzeroo of a two or three level HO Snap-Track pike ready for 5 a.m. Dec. 25th.

Therefore, I am presenting these few complicated Snap-Track layouts with the above explanation rather than apology. Simpler ones will come later ones you can whip together in an hour or so and have running for Yuletide even if you start pretty late. Watch the Dec. RMC.

The Susquehanna & Eagles Mere RR

The Susquehanna & Eagles Mere RR is a two level pike on a four by eight table. A lot of it is on "the" level of the table, enough to run two trains at once. The level part consists of an outer line with 18" radius curves, and an inner line with 15" radius curves. These are connected by two sets of switches forming cross-overs, one set at left rear, another at right front (rather indirectly). You can run trains on each of the level ovals mentioned, or, by utilizing the high line across the back you can switch from one oval to the other in an "inside out figure eight" pattern. Meanwhile there is the inner oval on which you can switch in the yards Thus you can have two trains running at one time, and occasionally even three.

There are three terminal sections (T). T-1 controls the outer main level line, T-2 the inner one, while T-3 controls the mountain trackage. Of ccurse plastic joiners must separate the sections controlled by the three separate power packs of sets of controls, and these are indicated by (P). For a while you can run all three "blocks" from one power pack, but put in the plastic joiners anyhow and run separate wires to each block to save you trouble later.

Caroline Clinchfield & Ohio RR

The Caroline, Clinchfield & Ohio RR is a coal road climbing over and through the mountains in a four by eight panel. If built with Snap-Track all main line curves would be of 18" radius, with grades of 1" rise in four sections of track or less. It is all under the control of one power pack, connected at a terminal section (T)

4 snap track layouts

Something Complicated

by the Layout Doctor

which can be located anywhere, but logically at the front.

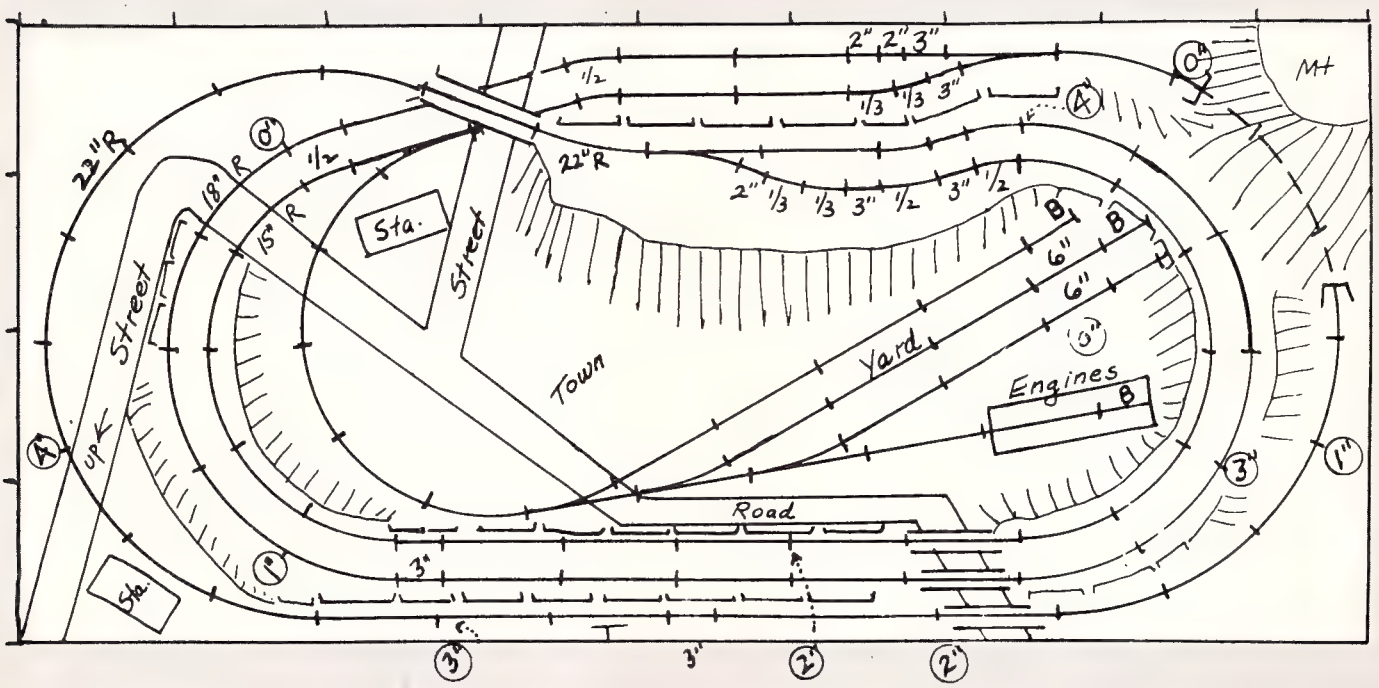
Huntington & Broad Top Mtn. RR

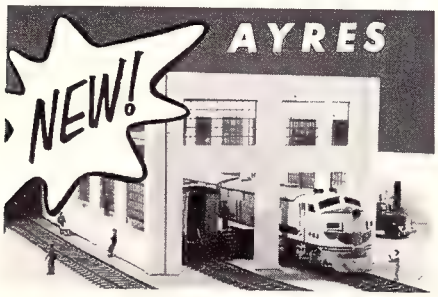
The Huntington & Broad Top is another four by eight foot pretzelled Snap-Track layout which rises up to a third level and then drops down again. Some of the main line curves have to be made 15" radius in order to fit it on the table. A mine is located at the lower left corner, with a plant to process the ore in the center of the table next to the small "yards". Both these are available in kit form from your dealers. An important thing to notice is that the switch at lower left, at the front, is located with its movable points just outside the tunnel entrance. It is very bad policy to put a switch *in* a tunnel and you should never do it unless you have some way of reaching it, as in from the side. Switches are always the weak point on any layout. Some of the grades on this railroad are quite steep, up to an inch rise in three and a half sections of track, which will limit the length of your trains. Only one power pack and terminal section (T) is required, and no plastic rail joiners unless you want to sectionalize the pike, which is more than we want to go into here.

The Dominion & Atlantic RR

The Dominion Atlantic is an HO Snap-Track layout four feet wide and eight feet, nine inches in length. It is a basic inside out figure eight layout, on two levels. The line is part single, part double track, so that with a slight fancying up of controls, two trains could be run at the same time, in opposite directions: that is, each of the double tracks would be set off at each end with plastic rail joiners, and each would have its own controls. There is a three track yard and a little one stall enginehouse such as made in kit form by Model Hobbies. Notice the use of 22" radius Snap-Track curves around each end, plus two more sections at either end of bridge at upper left, totalling 18 sections of 22" curve.

DOMINION ATLANTIC RR **4' x 8'**





HO Diesel House

Foreground realism at low cost!

Your diesels need this finely detailed, realistic servicing shop. An ideal first for your ready-to-run kit; it is a must for the most elaborate pike. You'll marvel at the deep, long work-pits. Kit is easy to assemble and small enough (16½") for any layout. Buildings may be placed in pairs for that massive mainline "feel."

15¢ IN COIN brings informative 16-pg catalog

SEND POST CARD for quick-reference folder.

AYRES SCALE MODELS, INC.
925 Santiago, Santa Ana, California

When writing to advertisers, please mention Railroad Model Craftsman

S AND HO
AMERICAN FLYER HEADQUARTERS

All standard lines in stock. Send stamped envelope for Bargain list. State gauge.

DELAWARE VALLEY HOBBY SHOPS
SOUTHAMPTON 8, PA.

PAINT 'EM YOURSELF!

SAVE UP TO 80% OF THE COST OF ORDINARY STYLIZED READY PAINTED PIECES

Illustration ½ size All Metal

Everything your station needs! Easily painted in colors to suit yourself. You get 22 detailed pieces: 9 people, bench, news stand, dog, hand truck, 4 suit cases, baggage wagon, scale, trash box, packing case, mail box.

STATION SCENE, as illustrated **$1.00**
NEW! (HO 560) **NEW!**

For MANTUA! NMRA Automatic Couplers! Special design converts your MANTUA freight cars, locos, Talgo trucks to NMRA automatics. Complete with springs. Only 15c a pair.
And 8 pair for $1.00!
Detail With Economy!

K-101 HO Ore Car, Beth $1.25
K-102 HO Ore Car, Pullm. $1.25
K-103 Low Gondola $1.25
With NMRA automatics, less paint & trucks.

REGULAR NMRA AUTOMATICS!
Couplers & springs 15c pair; 8 pairs, $1.00
With pockets & covers 30c pair; 8 pairs, $2.00

BIG CATALOG!
BIG CATALOG! 850 Metal Railroad items. Illustrated. Send for it NOW. Only 10c. FREE with your order; 4 color poster!

ASK YOUR DEALER

SELLEY INC. 744 Clay St. Dept. 211 Winter Park, Fla.

Budd

Pep up your operations by adding a self powered RDC or even a gas buggy, thus adding passenger service to some all freight line.

Fit an RDC in Your Schedule

by Thomas Leaming

IF YOUR model railroad is still running freight service only, get some of that passenger money back from the busses by operating an RDC on a fast frequency service. The HO kit available from Athearn will take care of the fast part, while the frequency is up to you. If you have a point-to-point railroad, simply set aside a spur track at each terminal and whenever freight operation permits, start the RDC out for the other terminal; when it gets there shut the switch and return it at the first opportunity. If you have a real timetable, of course such train movements will have to be fitted in carefully; but if you run by "smoke orders" it's a lot more fun.

The average railroad however is not point-to-point but is more of a continuous run, represented roughly by fig. 1. In this case the RDC can make it's home on a short spur track behind one of the passenger stations, so that when freight operations stop temporarily, it can go out for a trip around the main line. If the spur track continues into a tunnel, the RDC can be off on its long run to the nearby big city, when it is actually hiding just inside the tunnel mouth.

The two-car RDC "train" which divides at a junction, each car taking one branch, can be duplicated by a double reverse loop as in fig. 2. The cars can round separate loops, hide a while, then come together again at the station for the trip into the big city. If you do not care to use two motor cars, run the train dummy RDC first, motor car last and have the dummy shoved into the tunnel, then picked up as the motor car comes around the reverse loop the other way.

Of course RDCs in real life do not pull trailers since they were not designed with that in mind and the drives might be strained. However.

7 great reasons why Gilbert American Flyer

Trains give you far more railroad realism!

Illustrated: *Mighty "Hudson" 4-6-4 locomotive.*

Only American Flyer trains have *all* these wanted features! They're built real to look, act and sound just like the real thing. Each American Flyer train is made to Gilbert's high standards of ruggedness and dependability. See the all-new line of American Flyer Trains and amazing action accessories at your dealer's now.

1 **SCALE MODEL CONSTRUCTION:**
Every locomotive, every car an exact 3/16" scale replica of a real train.

2 **2-RAIL, T-SHAPED TRACK:**
Flat-topped for better traction. Just like the kind real railroads use.

3 **REAL SMOKE AND CHOO-CHOO!**
Loco sounds timed to the driving wheels. White smoke and red fire-box glow, too.

4 **RUGGED PULL-MOR POWER!**
Only American Flyer has it. Your train hauls over 40 cars, can climb steep grades.

5 **AUTHENTIC KNUCKLE COUPLERS!**
Patterned after real railroads. Fool-proof, remote control operation.

6 **POWERFUL WORM-DRIVE MOTORS!**
More hauling power. Stops and starts on a dime, gives extra power when you need it.

7 **NEW FOR '55 DIESEL ROAR!**
The greatest Diesel advance of all. Sounds just like a real engine...you have to hear it to believe it!

SEND FOR THIS DOUBLE VALUE OFFER!

192-page book: How to Build and Operate A Model Railroad. Hundreds of illustrations. A wealth of ideas on how to plan and build your own railroad.

Brand new, full color, American Flyer catalog. Shows you every train; all accessories, too. 44 pages of action and fun.

Both Only 25c — Write Today
(or the catalog shown 10c)

Gilbert Hall of Science, Dept. 20
Erector Square, New Haven 6, Conn.

☐ I enclose 25c. Rush both big train books.
☐ I enclose 10c. Rush Catalog.

Name _____

Street _____

City _____ Zone _____ State _____

*Best Train Values

THERE'S A REASON

More than half of the rail fans sending for

TRADER SAM'S 1955 BTV* CATALOG

Illustrates 30 1955 LIONEL Sets

Have sent 1 or more orders

YOU can't afford to miss this ALL GAUGE tinplate & scale *Best Train Value catalog featuring over 20 leading manufacturers including LIONEL, KUSAN KMT, PITTMAN, GARGRAVES, CENTURY, THOMAS, AMERICAN FLYER, 11 MAKES READY to RUN HO SETS and many kits in "O," "S," "HO," & "TT."

IT PAYS TO TRADE WITH TRADER SAM

TRADER SAM'S FALL BARGAIN LIST 20c

f Discounted 1954 Lionel and other RR items priced 25% to 50% off list.

SEND ONLY $1.00 FOR BOTH

our *Best Train Value catalog & FALL BARGAIN LIST. Dollar fully refunded, if you don't agree it's worth more. ($1.40 air mail.)

See Oct. Railroad Model Craftsman or Oct. Model Railroader for detailed Bargain List. A few 1954 Lionel Sets left at 40% to 50% off.

NEW CUSTOMER BONUS

If you don't have our catalog, send up your next model railroad order, using prices shown in this magazine or the makers catalog. We will ship PREPAID and include a handsome bonus in new merchandise. The BIGGER the order, the bigger the BONUS. WE GUARANTEE TO PLEASE, if you are not satisfied with the order and Bonus, return it for full credit within 5 days of receipt.

MFG. CATALOGS 25c

Most are available from us at 25 cents each. PLEASE NOTE: The 1955 LIONEL 4 color catalog does not show complete train sets, however these are illustrated in Trader Sam's *BTV Catalog.

TRADER SAM

Mail Orders Only

4708 McKee Dr. Pittsburgh 36, Pa.

IT PAYS TO TRADE WITH TRADER SAM

"O" GAUGER

Northwestern Reefer (new color scheme) $5.95
A.T.S.F. Sectional wood sheathed box ... 6.50
Dealers write. Catalog 10c in coin.

ZIMMER SCALE MODELS

4321 N. Mason Ave. Chicago 34, Ill.

1955 CATALOG

Shows over 215 different kit models, plus trucks, couplers and hardware all available for

S gauge scale and tinplate

O gauge tinplate

catalog 25c (coin only)

PERMA BILT MODELS

140 N. Dearborn Chicago 2, Ill.

Tell Our Advertisers You Saw It in RAILROAD MODEL CRAFTSMAN

FOR OLD-TIME HO MODELING FUN!

CENTRAL VALLEY KITS and TRUCKS

CENTRAL VALLEY

13030 SATICOY ST., NORTH HOLLYWOOD, CALIF.

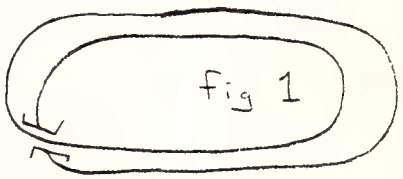
Two Great Names for Quality

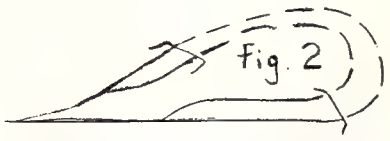
Laconia Colorful HO LINE KITS

See your dealer or send direct for Binkley's new Ringling Bros.-Barnum-Bailey advance passenger car—only $5.50 complete—Send 10c for Binkley catalog; 25c for Laconia color catalog.

BINKLEY MODELS HO and HOn3

BOX 31, DEPT. RM INGLEWOOD, CALIF.





the drive trucks of model RDCs are overpowerful and can pull dummy RDCs, supposedly other motor cars making up a train. Under no circumstances would an RDC be found pulling a freight car.

Once you have rigged up an RDC schedule of sorts for your model railroad you can add to your fun by having the car out of service for one reason or another and making an ancient steam train do the job. If your road has disposed of all its passenger equipment when it bought RDCs, the resultant passenger train of cabooses and work train cars will sure look odd. One fan we know has only a dummy RDC and has it perpetually out of service, at least out of motor service, pulled by a Belle of the Eighties 4-4-0 that came down off its pedestal in front of the Union Station to help maintain passenger service.

If you are a bug on train operation, making meets and overtaking trains on a single tracked line with sidings, an RDC is a natural when the operation is one-man. The single RDC makes an official train and it is a lot easier to make meets with this single train with only eight wheels than it is with a long freight or passenger train with so many wheels, any one of which may drop off the track and cause a massive derailment.

SMOOTHER WITH A KADEE TRUCK

T-1 Buckeye Double Truss. $ .75

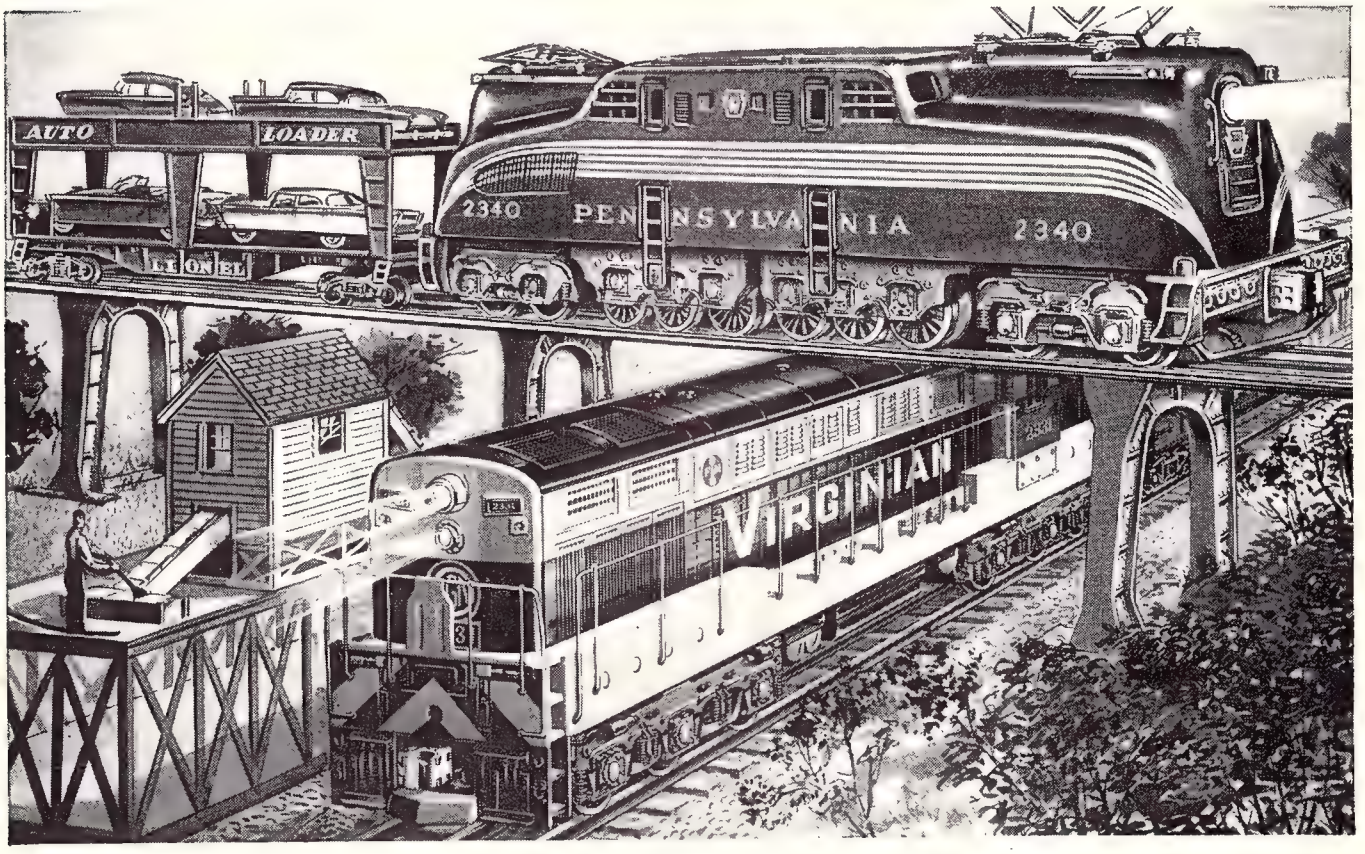
T-2 Talgo type $1.30

Two new additions to the famous Kadee HO Coupler line are:
T-1 Buckeye Double Truss — standard type, fully sprung, self-equalizing, heavy duty.
T-2 Talgo type — coupler and draft gear are an integral part of the truck, self sprung, and self-equalizing. These authentic, exact replicas have a wealth of detail and depth which truly give them a 3-dimensional look. Notice the brake beam and rod detail of the bolsters, the Davis pressed steel, AAR journal box lids, the structural webbing, and the full dimensions of the spring pads. As for operation, the built-in, fully sprung, self-equalizing ability, makes for maximum rolling and track ability. The Talgo unit is designed especially for the absolute maximum operation with no loss of realism and also for the fellows who want a super quick adaption to various brands of cars. The unit puts the coupler on center between rails so that it is always positioned for gathering. Now, length of cars makes no difference — Long ones, or short ones, cars on and off curves are ready for coupling.
These trucks give you performance of the future TODAY.
T-1 Buckeye Double Truss. $ .75
T-2 Talgo type HO truck with Kadee automatic coupler attached $1.30

Kadee METAL PRODUCTS CO.

720 S. GRAPE • MEDFORD, ORE.

For real railroading adventure... get these all-new LIONEL® locos, cars and accessories for 1955!

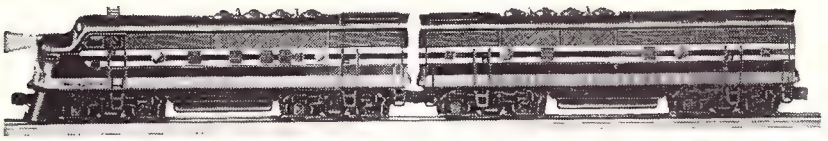


Two Great New "O" Gauge Locos. On trestle: Sleek, superbly detailed Pennsylvania Electric "GG1" comes in authentic wine color for passenger service (No. 2340-1), green for freight (No. 2340-25). Under trestle: Mighty Fairbanks-Morse diesel in the striking gold and black markings of the "Virginian" line (No. 2331). Every detail is "real railroad"-perfect! Each loco has two motors fully equipped with Lionel's exclusive MAGNE-TRACTION.

New Trestle Set No. 110. Complete set of graduated piers for overpasses, bridges and other overhead units.

New Ice Depot Set No. 352. Push control button, "reefer" car hatch opens; attendant pushes ice into it. Release button, hatch closes. Set includes car.

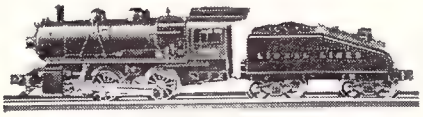
New Auto Transport Car No. 6414. It's even new on the big railroads! Includes four removable miniature autos! A "must" for all up-to-date lines!



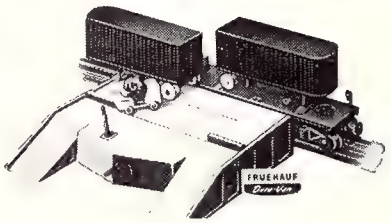
New "Illinois Central" "O" Gauge Diesel No. 2363. This twin-unit two-motor GM-type thunderbolt is a thrilling sight in new red, yellow and brown colors! Packed with rocket-like MAGNE-TRACTION power, striking detail!

New "State of Maine" Box Car No. 6464-275. An exciting tri-color salute to Maine's potatoland R. R., the Bangor & Aroostook. Vivid red, white and blue horizontal striping. One of the most colorful cars ever presented.

New Piggy Back Transportation Set No. 460. (right) There's action-a-plenty with this newest real-life R. R. innovation! Load vans on and off flat car from platform by hand crank! Set includes platform, flat car and vans.



Back by Popular Demand—No. 1615LT Steam Switcher. Now better than ever! Based on Pennsy's unique O-4-O yard-goat...the "B6" with slope-backed tender, tall smokestacks. For both "O" and "O27" gauges.



See these brand new locos, cars and accessories at your LIONEL dealer's now!

NOTE: Locomotives shown on this page are available separately or as components of complete Lionel Train sets, which start at $19.95.

THE LIONEL CORP., 15 EAST 26TH STREET, NEW YORK 10, N. Y.

HO KITCHEN CAR

NEW, SENSATIONAL KIT

Easy to build into an Authentic Model
• Prefinished scribed sides • Sprung Trucks
Complete kit, with instructions, only $2.95 pp.
Send stamped envelope for "Work Car" Flyer

L. W. MODELS CO.
RD No. 2, Box 252 Latrobe, Penna.

CANNONBALL PRODUCTS

Detail your O gauge locos with these finely detailed parts.

Loco Builders Plates, 25c, 3 Chime Whistle (long) 65c, 6 Chime Whistle (short) 75c, #4000 Elesco Injector 95c, Worthington Hot Water Pump $1.00.

WESLEY MANUFACTURING COMPANY
6045 ALLOTT AVE. VAN NUYS, CALIF.

"OO" GAUGE

Budd RDC Cars. Nos. 1, 2, & 3. 70 Ton Triple Hopper Cars. High Side Gondola Cars, all made in brass, completely assembled and painted.

FRED E. SCHORR, JR.

Write **577 N. James St.**
Sold direct only **Hazelton, Pa.**

LAYOUT PLAN SERVICE
HO REPAIRS

(Specific inquiries invited)

List of built up HO engines for stamp.

WILLIAM SCHOPP
445 S. Logan Ave. Trenton 9, N. J.
Phone OWen 5-2202

CHANGE OF ADDRESS: Send your new address at least 30 days before the date of the issue with which it is to take effect. Address

RAILROAD MODEL CRAFTSMAN
RAMSEY, NEW JERSEY

IF YOUR DEALER HASN'T GOT WHAT YOU WANT

TROST

ASK HIM TO ORDER FOR YOU

HE CAN GET IT FROM TROST

TROST

MODELCRAFT & HOBBIES
3140 W 63RD ST., CHICAGO

CLOSE OUTS

LIONEL TRAINS CARS ACCESSORIES

1515WS 5 car freight	$49.95 Now	$29.95
2223W "O" 5 car diesel freight Lackawanna locomotive	67.50 Now	39.95
2225WS "O" 5 car work freight No. 736 locomotive —all work car	69.50 Now	41.95
2227W "O" 5 car freight diesel twin Santa Fe locomotive	69.50 Now	42.95
No. 3469 Automatic ore car	8.50 Now	5.29
Lionel Trucks—R. Cond. A. Coupler		1.00
2421-2422-2429 pullman cars		5.39

Add 25c ea. car—99c set—postage and ins.

HOBO SHOP
3662 Reading Road Cinti. 29, Ohio

OFF THE TEST TRACK

Custom Bilt Trains, HO

Railroad hobbyists are now able to obtain HO cars, locomotives, and complete train sets in ready to roll form. Available in the Custombilt line are freight cars from Athearn, Laconia, Ulrich, Model Die Casting, and Blue Line passenger cars.

Since many of the cars offered by this company in built up form require some time and skill to assemble, we were curious as to the quality of the final product. An inspection of the Custombilt plant gave us our answers. Ulrich dump cars were everywhere.

The answer was largely one of mass production, which keeps prices low and little higher than the kit price. About one hundred cars of each type and road name are run through at a time.

The first operation in the assembly is in cleaning flash from the castings. This must be done carefully since many kits won't assemble properly unless this is done with care. After cleaning, the parts are taken to the painting department where they are spray painted in colors to match the sides. We were interested to note that tuscan hopper cars received black inside paint. None of the black paint touched the prepainted and lettered sides.

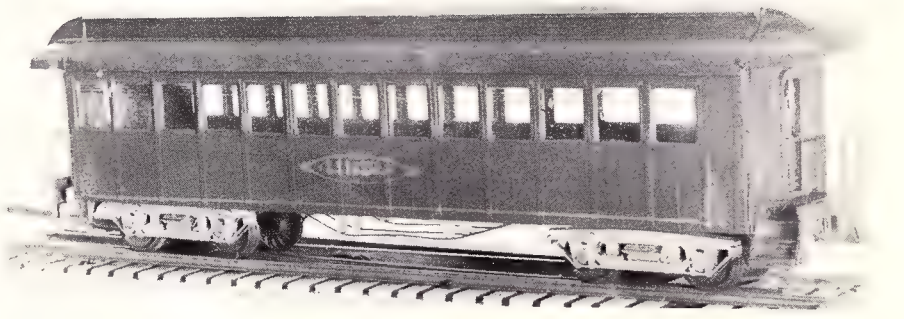
Assembling is done in specially prepared jigs, each girl performing one operation. Touchup painting of rivets,

Custombilt Models use Kadee couplers on all of their ready to roll sets and we were delighted with the spring action that they've put into their couplers. Cars and locomotives ordered as custom built will be equipped with any coupler desired: Kadee, Mantua, old MDC AAR, dummy, or NMRA automatic. For prices and literature on either train sets, cars, or locomotives, write Custombilt Models, Box 474, Ho-ho-kus, N. J.

1864 Pullman Palace Dining Car, HO

One of Binkley's latest passenger cars is an 1864 Pullman Palace Dining car that should fit in well with shorty car, and period operators. The car kit comes complete less trucks. Sides are of a composition stamped card material, prepainted green with gold lettering "Linda". Windows are stamped out cleanly. Roof and floor sections are milled wood. The curved roof ends are lead base castings which are cemented in place, eliminating the need for shaping the roof although some minor filing and possibly a little filling may be necessary to hide the joint between wood and metal.

The ends and steps are one piece castings with very nice detail and little flash. End sills are cemented to the steps and are also castings. Cast queen



CORRS

812-818 NINTH ST., N. W.
WASHINGTON — 1, D. C.

OUR 60th YEAR

FALL Specials

O GAUGE SCALE SWITCHES REG. 4.50 SALE $2.67

All Gauge Per Mag Track Switch
REG. $1.95
SALE .99 ea.

Railroad Ties
for "S"—"O" and "O-27"
No. TP-1 for "S" Gauge
No. TP-2 for "O" Gauge
No. TP-3 for "O-27" Gauge
ONLY $1.00 A BAG

SAVE ★★ SPECIALS! ★★

HO GAUGE MOTIVE POWER
Mantua Metal Products Co.

Reading Atlantic 4-4-2 $47.50
Reading Pacific w/tdr. 4-6-2 49.50
8-Ball Mogul w/tdr. 2-6-0 29.50
Round House Goat 0-4-0 24.50
Belle of Eighties w/tdr. 4-4-0 ..... 29.50
Mikado w/tdr. 2-8-2 .. 27.95
Shifter w/tdr. 0-4-0 .. 15.95
General w/tdr. 4-4-0 .. 24.95
New Pacific w/tdr. 4-6-2 24.95
Booster Tank Switcher 0-4-0 ..... 9.95
Shark Nose Diesel A unit 14.95
Little Six 12.95
Big Six 17.95

HOBBYTOWN

Clutch ..... $ 2.95
Alco Switcher Dummy 12.95
E-7 12 whl. drive... 29.95
E-7 Dummy A Unit 7.95
E-7 Dummy B Unit. 6.95
Alco 2000 H.P. A 12 whl. drive..... 29.95
Alco Dummy A Unit 7.95
Alco 1600 H.P. 8 whl. drive..... 27.50
Globe F-7 power unit 14.95
E-7 powered A 8 whl. drive..... 19.95
Alco Road Switcher 8 whl. drive..... 19.95
Alco Road Switcher 8 whl. drive..... 24.95
Alco 2000 H.P. 8 whl. drive..... 19.95

We stock a complete line of motive power in HO gauge and building kits. You can buy with confidence at Corr's. Efficient, 24-hour service on all mail orders.

O-GAUGE
All Nation

Pacific 4-6-2 with Tender $63.25
Atlantic 4-4-2 with Tender 51.25
B-O Ten wheeler 4-6-0 with tender 48.85
Mountain 4-8-2 with tender 92.50

Lobaugh

C and O 4-8-4 Greenbriar $146.40 kit
C and N.W. Berkshire Engine 110.50
Southern Pacific 0-6-0 Switcher 77.50
New Haven 4-4-0 locomotive 69.50
Mogul 2-6-0 locomotive 69.50
Pacific 4-6-2 locomotive 98.50

T-T GAUGE
TT Engines H.P. Products

4-6-2 Pacific Locomotive and Tender Kit $29.95
2-8-2 Mikado Locomotive and Tender Kit .. 31.50
4-8-2 Mountain Locomotive and Tender Kit ... 33.50
2-8-0 Consolidation Locomotive and Tender Kit 26.50
0-6-0 Switcher Locomotive and Tender Kit ... 22.00
4-4-2 Atlantic Locomotive and Tender Kit ... 23.50
4-6-6-4 Articulated Locomotive and Tender Kit 60.50
MU Power Coach Assembled 12.45
Diesel A Unit Powered $23.00
Diesel B Unit Powered 20.50
4-6-2 Pacific with Tender Ready to Roll 42.50
2-8-2 Mikado with Tender Ready to Roll 45.00
4-8-2 Mountain with Tender Ready to Roll 47.50
2-8-0 Consolidation with Tender Ready to Roll 37.00
0-6-0 Switcher with Tender Ready to Roll 27.00
4-8-4 Northern with Tender Ready to Roll 45.00
Diesel A Unit with Power 28.50
Diesel B Unit with Power 25.00
Diesel B Unit less power 17.50

SILVER STREAK HO CARS

CABOOSES

30 Ft. 4 winder (unlettered) $2.95
Mo Pac Drovers ... 3.50
34 Ft. Combination. 3.50
Box Car-Bay Windows 3.50
Southern Pacific 30 ft. 3.25
Union Pacific 30 ft.. 3.25
Baltimore & Ohio 28 ft. 3.25
Great Northern 24 ft. 3.25
Frisco 28 ft. 3.25

Atlas Trackage

No. 4 Assem. R or L $1.95
No. 6 Assem. R or L 1.95
No. 8 Assem. R or L 1.95

Atlas Switch Kits

4, 6, 8 Wye..... $1.25 ea.

Crossing

90° $1.75
60° 2.25
45° 2.25
30° 2.50
18° 2.50
99° Brass Rail Sale $3.75

Atlas Custom Line

Wye Assem. $2.50
No. 4 Assem. R or L 2.50
No. 6 Assem. R or L 2.50
No. 8 Assem. R or L 2.50
Remote control switch motor 1.75
Manual switch machine .60

Atlas Snap Track

15 radius $3.00
18 radius 3.00
22 radius 3.00
Remote control switch 4.00

MAIN LINE HO CARS

Private Owner Reefers
Pabst Beer
Canada Dry
Crisco
Wilson Meats
N.R.C.C. Bananas
A & P Tea Co.
Decker Meats
Schlitz Beer
$2.85 Less Trucks
Private Owner reefer
Oppenheimer sausage $3.35
Ralston Purina reefer 2.85

EXPRESS REEFERS

Dairymen's League
Western Dairy
Renkins
Pacific Fruit Express
Milwaukee
Pennsylvania
Northern Pacific
Great Northern
Missouri Pacific
Sheffield
$2.95 Less Trucks

BRAND NEW

Menasha Wooden Ware Box Car
$2.95 Less Trucks

RAILROAD PAINT
Reg. 40c Bottle
Sale 19c
BLACK TUSCAN RED
YELLOW GREEN
BOX CAR RED
ROOF BROWN — BLUE
CABOOSE RED

HO Decal Special
HO Decals
For Box, Flat, Reefer, Gondola, Caboose, and Hopper
Reg. 30c set—6 sets for 99c
Our choice of assorted road names

O OR 027 TINPLATE SIGNAL TWO LIGHT
REG. 3.50
SALE 1.99 ea.

CORR'S BARGAIN COUNTER of close-outs or discontinued items

O GAUGE CARS		
Scale 24 duplex roomette	Reg. $8.95	Sale $4.99
Box car or reefer with tinplate trucks and couplers for O or 027 track with metal silk screened sides	Reg. 4.00	Sale 2.39
O GAUGE BUILDINGS		
Star Line concrete underpass kit	Reg. 3.00	Sale 1.79
PLASTICVILLE BUILDINGS		
Log cabin and fence with tree	Reg. .89	Sale .49
Super market	Reg. .89	Sale .49
Bridge and pond	Reg. .69	Sale .39
Rustic fence and gate	Reg. .59	Sale .34
Out House	Reg. .19	Sale .10
HO BUILDINGS		
HO Freight station	Reg. .49	Sale .29
HO House Skyline set—barn and silo, farm house, corn crib, wagon shed, poultry house	Reg. 2.95	Sale 1.79
Skyline set—passenger station, freight station, interlocking tower and tool shed, water tower and tool shed, water tower and pump house, steam plant, mixing plant	Reg. 3.50	Sale 1.99

KASINER
Tinplate shorty pass. cars streamline L/T
LIMITED NUMBER
Baggage coach
Coach
Sleeper
Astradome
Postal baggage
Observation
Reg. $5.95
Sale 3.59 ea.

O GAUGE HAND CAR
REG. 50c
Sale 29c

SEARCHLIGHT SIGNAL HO WORKING POLE TYPE WITH FULL INSTRUCTIONS
Reg. $1.50
Sale 89c ea.

O OR 027 TINPLATE SIGNAL THREE LIGHT
REG. 3.95
SALE 2.39 ea.

O.K. STREAMLINERS
HO Scale—80 ft. with trucks

Coach $4.45
Astradome 5.45
Observation 5.45
Baggage 4.45
Baggage coach 4.45
Sleeper 4.45
Diner 4.45
Postal baggage 4.45

HO Shortys

Coach $3.95
Astradome 4.95
Observation 4.95

O Gauge
Decal Our choice of assorted road names.
Box, Flat, Reefer, Gondola, Caboose, and Hopper.
Reg. 40c set—6 sets for 1.39

SKYLINE O GAUGE METAL BILL BOARDS
REG. 50c NOW 3 FOR 29c

HOW TO ORDER—Please send remittance in full by check or money order plus 10% for postage and packing. We do not ship C.O.D.

ORDERS SHIPPED SAME DAY RECEIVED. WE SHIP FROM STOCK. WE ADVERTISE ONLY MERCHANDISE THAT IS ALREADY ON OUR SHELVES

O Gauge Metal Car Sides

40 foot Reg. $1.25 set
Sale 69c set

Our choice of names
Baltimore and Ohio
Southern Pacific
Union Pacific
Canadian Pacific
Northern Pacific
Nickel Plate
SOO Line

SAVE Relay Switch Machines and Signal Motors
Reg. $1.50
Sale .89 ea.
OUR CHOICE OF ABOVE

CORR'S
812-818 Ninth St. NW—Dept. MC
Washington 1, D. C.

(Use separate paper for additional orders)

Gentlemen:

Please send me: .....

☐ Ships and Historical Models Catalog; 25c
☐ New Military Miniatures Catalog; 35c

Enclosed .....

Name .....
Address .....
City ..... State .....

THOMAS
READY TO RUN
O GAUGE CARS

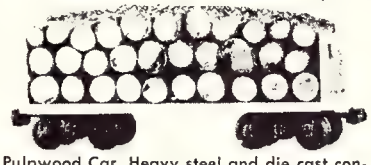
3 rail tinplate match Lionel

1869 Pioneer coach played an important part in Pioneer Days in the West. In three colors: yellow, green, or red. Sturdy all metal construction.

$5.50

1869 Combination Coach and Baggage Car. Has working side doors. Same construction as coach above.

$5.50

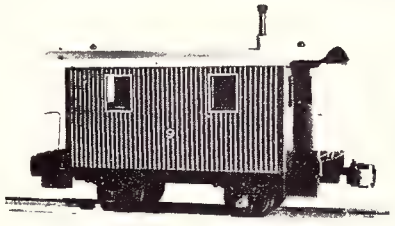


Pulpwood Car. Heavy steel and die cast construction with real load of logs for each car held in place with chains. Choice of red or black paint.

$4.75

Thomas Steel Flat Car comes with set of hardwood stakes so that car can be loaded with various types of cargo. Plenty of rivet detail. Car measures 8⅜", comes in red or black.

$4.50



Old Timer Four Wheel Caboose is a perfect ending for any freight train. You'll like the red striped sides and gray roof. Individually cast journal boxes, all metal construction. Measures 5⅛" overall.

$4.95

BETTENDORF FREIGHT TRUCKS. Fine diecast all metal freight trucks with couplers attached that swivel with truck, match Lionel.

$1.75 pr.

BETTENDORF FREIGHT TRUCKS. Same as above but less couplers.

$1.40 pr.

SEND 25c NOW for Thomas Catalog No. 540 listing the complete Thomas Line of all-metal locomotives and cars. Stations and accessories, too.

THOMAS
INDUSTRIES
P. O. Box 539 Shawnee, Okla.

posts for the truss rods are also included.

The platform railings must be formed from wire included with the kit. A special cast jig is included to make this job simple, it being only necessary to wind the wire around the block to make it form the correct contour. Four of these must be made. Additional wire is included for the truss rods.

The kit assembled easily although additional assembly instructions would make the job easier for new modelers The kit is only one in a series of historical and unusual passenger cars in the Binkley line of old timers, covering the period of 1860 through 1910. Many of these cars are modern enough to find use on present day pikes. The others are perfectly at home behind any diamond stack. Mfd. by Binkley Models, Box 31, Inglewood, Calif. Price $4.95 complete kit.

O Gauge Birney, Single Truck

Ken Kidder, one of the old time trolley fans, now offers a completely built up all brass single truck birney trolley in O gauge. A Japanese import, the car has very nice rivet and other detail.

What especially impressed us was the 22 inch wheels on the car which make it look odd at first glance. These wheels are correct and the odd appearance is due to overfamiliarity with HO birneys which have always been equipped with standard 33 inch railroad wheels which are oversize.

The motor is a 12 v. permag HO type mounted under the floor. The power is transmitted to one axle by a worm and gear. The other axle is connected to the powered axle by means of a spring belt. In tests, the car ran well but fast. She'll run more nearly scale speed when several cars are out on the line.

Working headlights are mounted on the car, as well as two working poles mounted on a small platform, common practise on low city cars. Spring action of the poles is satisfactory, could be just a little stronger. Detail on the cast bronze trolley trucks is good. Wire retrievers are omitted from the model.

The car follows the prototype of the old New York & Queens line, plans for which appeared in MODEL CRAFTSMAN, July 1939 (out of print). The roof is wood, completely shaped.

O gauge trolley operators have long asked for a good O gauge single truck birney. We think that they will find both the car body and the motor truck satisfactory. The wood roof and the all brass construction makes conversion to other prototypes easy. Some birneys were operated with basket fenders, poles mounted on the roof, varied ventilators. Some lines used metal destination signs mounted on the front dash. However, the basic design remained the same for all manufacturers and the car could be painted, as is, for almost any trolley line which operated them. Imported by Ken Kidder, Box 213, San Francisco, Calif. Price, built up body, $14.50. Power truck, either 2 or 3 rail. $12.50.

Mars Light, O Gauge

This contraption is one of the cleverest items we've seen in a long time and it really snaps up the appearance of an O gauge locomotive, especially diesels for which it was designed.

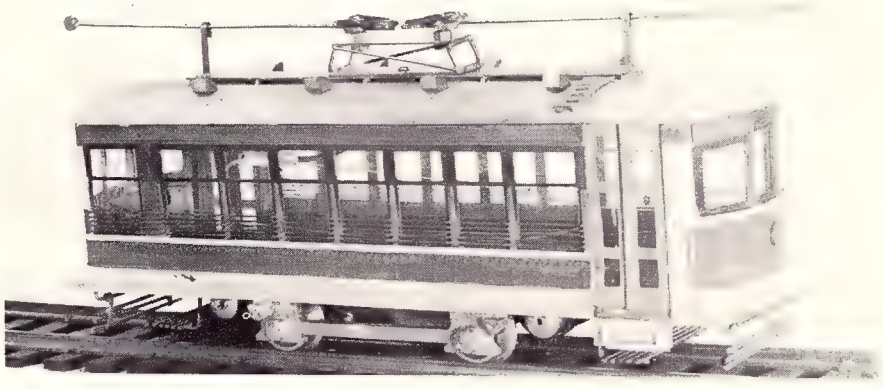
The operating Mars Light is made exclusively for All-Nation by the Scalite people and they've done a good job. When the Mars Light is used on the All-Nation F-3 or F-7, it is necessary to punch through the lower headlight. The lower light then becomes your headlight, the upper light your flashing Mars Light.

In operation, the prototype Mars Light appears to have a circular rotating effect which makes people want to get out of the way when they see it in operation. In the miniature version, there are two lights which flash on and off alternately to give the same effect. A third light, mounted underneath the flashing lights, remains lit continuously, to serve as the regular headlight.

The mounting of the Mars Light requires the use of a soldering iron. The soldering to be done is simple and merely requires that wires be soldered to certain terminals. A few holes must also be drilled into a bakelite floor plate which accompanies the All-Nation diesel.

The assembly consists briefly of the following operations. Mount the Oscillator floor plate with three screws to the front truck floor plate. Solder three resistors to the Oscillator floor plate. Cut seven pieces of wire to lengths given. Solder wires to the Lamp Holder Assembly. Solder lead wires from Lamp Holder Assembly to the Oscillator Assembly. Insert bulbs in Lamp Holder Assembly. Insert Lamp Holder Assembly into nose of diesel and adjust lamps to right position as determined by trial and error. Solder lead wires to motor. The actual instalation should not take more than an hour or two.

This unit has been designed especially for the All-Nation F-3 and F-7. It can probably be used in almost any make of locomotive with a minimum of alteration. The biggest problem would be to provide the second headlight opening and then providing a means of shielding the flashing lights from the cab and other openings. The unit could also be adapted to fit certain steam locomotives.



NARROW GAUGE

a space saver and a challenge

by Dick Andrews

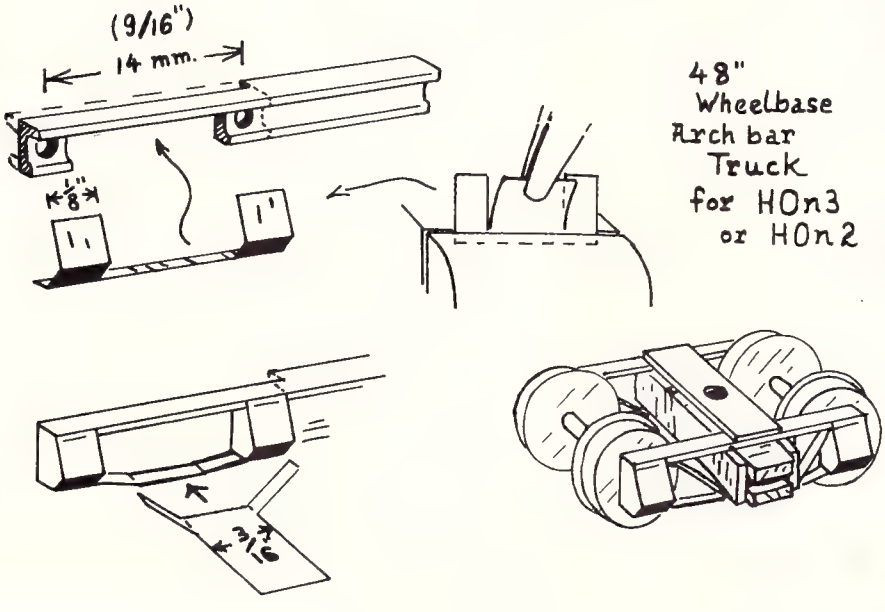
HO narrow gauge! Your HO pike is hardly complete without a little narrow gauge branch line feeding traffic to your HO "main stem"! What is this narrow gauge? Where do you get it and how do you do it? Actually "HOn" is well established—with quite a variety of good kits available—to create a wealth of new possibilities for your pike. It is usually easy to add some "HOn" somewhere . . . the very nature of narrow gauge is that it is adaptable!

Narrow gauge railroads were built by the hundreds in most states of the USA not so long ago, and some still remain. They cost less to build than a standard gauge (4'8½") railroad because the graded roadbed was narrower—and the tiny locos and shorter, low-slung cars could round very sharp curves to avoid tunnels, cuts, and fills. A narrow gauge pike could follow the slope of a mountain like a foot-path! They could go where standard gauge could not follow—and right there is their terrific value in model railroading. Could you take another gauge—smaller than TT—and thread it through your HO pike—or set it up in a corner? Sure you could— and HOn is in the same scale as your HO! Right there is the fascination. I will give you fair warning. Some men went into narrow gauge as long as twenty years ago—and haven't come out yet! Why, there are even narrow gauge sleepers, diners and—Mallets!

The most common narrow gauge of track in the USA has always been 3' flat—hence the popularity of HOn3. As the scale of HO is 3.5 millimeters to the foot—HOn3 track is 10.5 mm. wide—a little over ⅜"! (HO standard is 16.5 mm.—or just over ⅝".) However some fellows have gone into HOn2—modeling the two foot gauge used in some eastern states—and that is just 7 mm.—or just a little over ¼"! It works, too.

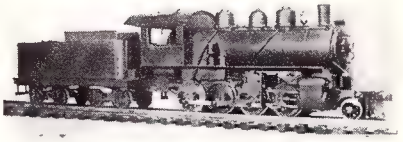
Almost any type of loco you can name has been used in narrow gauge (there are even narrow gauge diesels) but the most common types have been 2-8-0's and 2-6-0's in 3 foot gauge. Perhaps the most "classic" is the Denver & Rio Grande 2-8-0—available in HOn3 from Kemtron Products. This kit is a little gem—all lost wax brass castings. Parts for 2-8-0 are sold separately—and can be used to make many different types of locos. The Kemtron line also includes two sizes of saddle tank locos (popular with HOn3 modelers as they will take extremely sharp curves), a tiny four-wheel diesel, and even rail buses. The smaller Kemtron saddle-tank is just 2½" long, and her two tiny pairs of drivers are the same size as HO standard car wheels. An 0-4-0T that small will practically take 3" curves!

Car kits in the Kemtron line are combines, box cars and flats (the work-horses on any narrow gauge road), tank cars and "cabeese". Binkley offers box cars, hoppers, and various trucks. Another outfit, Pacific Fast Mail, offers the Kemtron and Binkley line, and in addition offers a completely built-up and ready-to-run 2-8-2 Mikado type loco—of the modern design now used on the narrow gauge portion of the D&RGW. Prices for these



THOMAS
scale
O Gauge Locomotive Kits

- ALL METAL
- PITTMAN POWER
- EASY CONSTRUCTION
- ALL-AMERICAN MADE



2-8-0 Complete
Kit L2000 $46.00

This dynamic consolidation will be the pride of your railroad. The 50" drivers pack plenty of power and she'll take a 23" radius curve with ease. All brass and die cast zamac construction. Total length of engine and tender 13¼". Also available in budget priced sections.

4-4-0 SHAWNEE EXPRESS Specify AC or DC motor
Kit L6000 $29.95

All the features of the 1875 period are incorporated in this Thomas American Standard. Now every model pike can have an authentic old timer for their One Spot. All metal, with worm drive and a powerful Pittman motor, this engine is a must for every model rail. Detail this to your heart's content.

4-4-0 BRANCH LINE SPECIAL Specify AC or DC motor
Kit L7000 $29.95

Here's rugged O gauge motive power at a ridiculous HO price. Use her for freight, passenger, or switching service. Her brass construction, with zamac castings, make assembly a pleasure. Ask your Superintendent of Motive Power to order two.

Our new Catalog No. 540 lists the complete Thomas O Gauge line, all of which can be shipped immediately. It's loaded with scale and tinplate cars and locomotives (tinplate to match Lionel). Accessories, too.

THOMAS INDUSTRIES
P. O. Box 539 Shawnee, Okla.

Modernize Your Railroad with the NEW "OK" Streamliners

HO SCALE and SHORTYS in 8 Popular Body Types-featuring:

NEW Fully Assembled Trucks
NEW Predrilled Floors
NEW Preformed Ends
NEW Sealed Parts Tube
NEW Short Radius Operation
NEW Assembly Method

NOW — more fun, less trouble . . . and better looking cars to boot. That's what this revolutionary new OK Streamliner group offers you in both Scale Models and Shortys: Heavy formed extruded aluminum bodies with windows and doors cut out, cast aluminum trucks with nylon wheels, and all small parts and clamps in a loss-proof tube. Everything packed in a complete kit, ready and easy to assemble.

See Your Hobby Dealer or Write Direct

8 POPULAR BODY TYPES TO CHOOSE

Type	Scale	Shortys
Coach	$4.45	$3.95
Astradome	5.45	4.95
Observation	5.45	4.95
Sleeper	4.45	3.95
Diner	4.45	3.95
Baggage	4.45	3.95
Baggage-Coach	4.45	3.95
Postal-Baggage	4.45	3.95

HERKIMER TOOL & MODEL WORKS
288 Harter Street, Herkimer, N. Y.

BUILD YOUR BRIDGES, TRESTLES, TOWERS OF METAL FOR REALISM—
— use —
MODEL STRUCTURAL SHAPES OF BRASS

ANGLES — CHANNELS
H COLUMNS — TEES
ZEES — I BEAMS
Flat, Round & Square Bars—Sheets

Manufactured by
SPECIAL SHAPES CO.
4817 LINSCOTT ST.
DOWNERS GROVE, ILL.
At your dealer or write for price list

CANADIANS
Save: Up to 33⅓% off on HO Gauge and Lionel model railroad supplies, kits, locos, sets. Send 25c for Lionel catalog. 10c for HO Gauge catalog.
ALL CANADIAN MODEL SUPPLIES
Box 226 Belleville Ont., Canada

EVER GET THE URGE TO TRADE OR SWAP HO LOCOS?
- 117 built up locos for you to look over from switchers to articulateds.
- Will consider trade-ins anytime.
- South Jersey's only all HO train store where trains are a year round business not a sideline.
- Authorized dealer for Mantua—Pennline—Hobbyline.

WATSON'S HO TRAINS SHOP
520 Richey Ave. West Collingswood 6, N. J.
Phone CO 5-4728
WE BUY — SELL — TRADE — ANYTHING IN "HO"

items are comparable to regular unit prices in HO.

Many HO narrow gaugers like to build their own locos and cars, using items available from these houses. The smaller Lindsay motors and the Main 70 motor are specially designed for these requirements.

The narrow gauge roads used small rails, and thus a special small rail for HOn has been made up. This is called "Code No. 70" rail and is .070" high (regular HO rail is "Code No. 100" and is .100" high). Turnouts are available; also track gauges, spikes, etc. For prototype appearance, this rail is laid on ties a scale 7 ft. long—which gives that "narrow gauge" look. Rail is available from Kemtron.

Structures—stations, engine houses, turntables, etc.—present no problems at all—because HOn is in HO scale—and any small HO structures will suit HOn. Thus such items as the Robico turntable (the old-fashioned wooden "gallows" type which requires no pit); Suydam branch line engine house; Ayres stations, trestles, water tank, etc.—are all practically made to order for HOn as well as HO.

The layout possibilities with HOn are endless. Many fellows like an "out and back" plan—the narrow gauge starts by the regular station and climbs up into the Backwall Mountains—reverses itself on a tight-radius balloon—and is ready for the return trip. You can figure the angles roughly by using curves of 12" and less radius—calling each freight car about 3¾" long—and a passenger car 6" or less. A loco such as the 2-8-0 is just 7" complete with tender—while the small 0-4-0T is just 2½" long. And the best thing about it is this—the narrow gauge prototypes used such reversing "balloons" to turn a complete train! HOn can dive into a tunnel portal just 2¼" high (instead of 3" for HO)—and thus requires not much more than that to spiral up over itself. Tracks side by side are spaced 1¾" in yards center line from center line, and 2" or so on curves. "No. 6" switches are generally used in HOn—this means that the rails intersect each other at the frog at an angle of 1:6. Allow about 9" from the start of the switch to where cars on the side track will clear the main line.

Make Your Own Trucks

For the fellow who would like to fool around with HO narrow gauge a bit, but would like to depend upon his own skill—picked up in HO strip-wood work—to hold down the costs, here is a way to put trucks under your cars very simply and quickly. The archbar truck is the most common type in narrow gauge—it will go under any freight car, loco tender, or anything but a first class passenger car. As shown in the sketch, it consists simply of "journals" holding the ends of the wheel axles; these are enclosed in boxes holding the lubricant—and are held together by three bars—usually 1" x 3"—bolted together. The top bar is straight; the bottom one may be too, or may dip down slightly at the middle; and the middle bar will start at the top, go under the bolster or crossbeam of the truck, and up again—forming the "truss" or strength of the truck side frame.

Take a 2" length of HO rail, put it in your vise on its side, and drill a hole through the middle part or "web" of the rail near one end. Mark off 14 mm. or a scale 4 ft., and drill another. These

holes should be just a little larger than the axles of the wheel-sets you are using. Now file off the half of the rail base that sticks up, and file out the head and web of the rail between the "journals", guided by the sketch here.

Take a bit of thin sheet brass or tin, cut to the length for your truck side, and then make two cuts almost through as shown. Put in the vise so that just the edge not cut is clamped, and bend the middle tab back and forth until it breaks out clean. Trim with a file. Bend the two remaining tabs at a 45 degree angle to the bottom bar—for what you now have here is that plus the journal box fronts. Bend again as shown, using pliers.

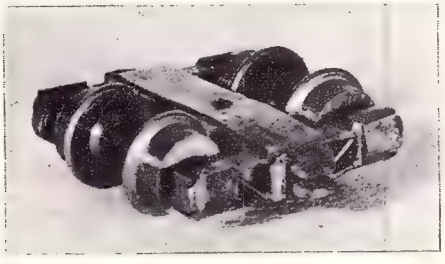
The extra rail on your first unit is a convenient "handle" which you now clamp in the vise while soldering this second unit in place. Run in enough solder to fill in the boxes.

The middle bar is now added as follows: cut a "T" shape out of another bit of thin sheet metal, as shown. The arms of the "T" are bent up. Fit into the truck frame, trimming the arms of the third unit and bending as required. The leg of the "T" is your handle for this. Solder in place by a quick touch of the iron to the bottom bar in the middle. When positioned correctly and soldered, the "handle" can be cut off. Now you have a short length of HO rail that mysteriously ends up in an HOn archbar truck side!

Make another, and then place your wheelsets in the frames to find the length of the bolster. Cut a strip of sheet metal and solder to the top of one side frame. Turn this upside down on the bench. To get the other side frame in alignment, it will help to draw two parallel lines (representing the location of the axles) 14 mm. apart. Turn the other frame upsidedown and solder in place. Now locate the center of the bolster strip, and drill a hole for the king pin. Cut away the rail "handles" now, and trim up the unit. Bend a gentle "U" into the middle of the strip metal bolster to permit installation of the wheelsets, and carefully straighten out again.

The final job is to install the wooden bolster beam and "spring plank" (there are coil springs between them inside on the prototype) and the two planks on edge that hold them in place. These are made up from five little strips of wood as shown, cemented together. If they are a press fit through the side frames, they will stay in place. Now you have an arch bar truck in a few minutes work for the price of a pair of wheelsets, 2" of HO rail, and a couple of scraps of thin sheet metal! This truck will go under any HOn3 or HOn2 car. For HOn3, order 26" or so diameter wheels, and for HOn2, request 20" or so scale diameter. These are available from Kemtron.

Next time we'll go into details of loco and car construction for your HOn pike.



Tru-Scale

the BIG 3

in precision engineered "HO" TRACKAGE

★ ★ ★

1. Tru-Scale **"READY-TRACK"**

Prototype realism . . . the only complete "HO" track and roadbed. Ballasted embankment . . . stained ties . . . brass rail spiked in place . . . rail joiners . . . READY for immediate assembly. Also a complete line of mounted turnouts, cross-overs and crossings.

2. Tru-Scale **"SELF-GAUGING"** ROADBED

Silent — accurately milled — realistic. A tie plate on every tie . . . grooved for exact rail gauge . . . ends all guesswork.

3. Tru-Scale **"PLAIN"** SUPER DETAILED ROADBED

A perfect subbase for plastic or fiber tie-strip track, which guarantees added realism and smooth operational perfection. Completely eliminates "snaky"-trackwork.

★ ★ ★

. . . and for the "Life of your Pike"

Tru-Scale SCENIC SURROUNDINGS

★ ★ ★

AT ALL BETTER HOBBY DEALERS

Drop us a card for free Illustrated Literature.

SYMBOL OF AUTHENTICITY

Tru-Scale Models

Dept. 2, SAN DIMAS, CALIFORNIA

OUTSTANDING . . .

CUSTOM BUILT JUST FOR YOU

SPECIALIZING IN O AND HO GAUGE

SEND 50c FOR NEW 1956 CATALOG—SPECIFY HO OR O

KING OF TRAINS — THE FAMOUS **HOBBY DEPOT INC.**

274 NO BROAD ST., ELIZABETH, N. J. — EL 2-7039

BACK ISSUE RELEASE

Here's an opportunity to build a library of model railroad information. Below is a list of back issues of Toy Trains Magazine and a partial index to their contents. In addition to the articles listed, most issues contain such popular features as Full Color Cutouts, Trains of Yesteryear, Layout and Design, Photo Stores plus many other construction and maintenance projects of lasting interest to all Toy Train enthusiasts. You'll find these informative magazines a tremendous help in the planning, construction and operation of your pike . . . but the quantity of magazines is limited. Present supplies cannot be replaced. If you want any of these copies for your library, we suggest you order immediately.

JANUARY 1952
Miniature Lumber for Sale
Antique Auto Show
Decorating the Train Room
Building a Bulk Oil Plant
Miniature Fence Construction
Railroad Freight House

MAY 1952
Remote Switch Control
Pave Your City Streets
Disappearing Layout
Simple Water Tower
Old Time General Store
Dusting off the Thirties

DECEMBER 1952
Under the Christmas Tree
A Gondola for Beginners
Try an Elevated Station
Box and Hamper Factory
Maintenance of Toy Trains
Turn on the Nights

JANUARY 1953
Hamm & Burger Sausage Works
One Evening Balsa Projects
Build a Railway Cannon
Wiring a Two Rail Layout
Bilgewater Office Building
Toy Trains Picture Pageant

FEBRUARY 1953
Repainting Passenger Equipment
New Ways to Build Your Railroad
Miniature Aircraft Beacon
Easy to Build Food Market
More Fun with Switches
Model Trackside Warehouse

MARCH 1953
Practical Ways to Build Lift Bridges
Inexpensive Model Railroading
Miniature Fuel Dealers Yard
Rapid Transit Car for Beginners
A Miniature Tool Works
Improving Trucks & Couplers

APRIL 1953
A Complete Industrial Area
Double Deck Section House
Remodeling a Lionel Scout Loco
Build this Tank Car for $1.00
Practical ABC's of Wire Work
A Complete Railroad in Sections

MAY 1953
Layout and Design Forum
Build an Overhead Crossing
Constructing a Saw Toothed Factory
Signals: How to install and operate
Generate Electricity at Home
All Purpose Combination Control

JUNE 1953
Here Comes the Model Circus
Depressed Center Flat Car for $1.00
Build a Miniature Power Dam
Engineer Control of Locomotives
Converting a Plan to a Railroad
Finishing the Tail End

JULY 1953
Getting the Most from an AF Switch
Constructing Portable Scenic Units
Running Trains by Signals
How to Build a Wayside Station
Operating by Card Orders
Outdoor Railroading

AUGUST 1953
Toy Trains Travelogue
Make Your Own Billboard Reefers
How to Build a Searchlight Car
Build Your Own Wye Switch
Easy to Use Momentary Contact Switch
Large Railroad Simplified

SEPTEMBER 1953
Detailing Toy Trains Cutouts
Operating a Permanent Layout
Model House Under Construction
Modernize Your Old Locos
Easy to Build Icing Facilities
Fold-away Model Railroad

OCTOBER 1953
Building a 6x8' Layout
Table and Trackwork Construction
Electricity and Your Locomotives
How to Use the New AF Couplers
Expanding a Model Railroad
Building Junction City (4 Stores)

NOVEMBER 1953
How to Build a Roundhouse
How to Assemble a Kit-Box Car
Turntable Wire Work
Adding Detail to a Corner
Switch Engine for $1.00
Tricks With Trackwork

DECEMBER 1953
Build a Work Train
Reworking Tinplate Track
Simple Electrical Repair Work
How to Plan and Build Grades
Christmas Time Trimmings
Detailing a Plasticville House

The price of these magazines, while they last, is 35c each or 3 for $1.00; orders are postpaid in the U.S.A., please add 10c per copy for foreign or Canadian. Use the handy coupon below or include your remittance in a letter. Send today with your check or money order to: Toy Trains, Back Issue Department, Ramsey, New Jersey.

---------- CLIP COUPON HERE ----------

TOY TRAINS
Back Issue Dept.
Ramsey, N. J.

Gentlemen:

That special back issue release sounds great. Enclosed please find $..... for the Toy Trains magazines checked below. I understand the cost is 35c each or 3 for $1.00.

( ) Dec. 51	( ) Jan. 52	( ) May 52	( ) Dec. 52
( ) Jan. 53	( ) Feb. 53	( ) Mar. 53	( ) April 53
( ) May 53	( ) June 53	( ) July 53	( ) Aug. 53
( ) Sept. 53	( ) Oct. 53	( ) Nov. 53	( ) Dec. 53

NAME .....

ADDRESS .....

CITY & STATE .....

Note: Copies postpaid in the U.S.A.; please add 10c per issue for Foreign and Canadian orders.

TROUBLE SHOOTING

Soldering Small Parts

▶ In soldering together many small parts as on a locomotive, signal bridge, and so on, I have trouble keeping the heat from the joint I am soldering from unsoldering some of the nearby joints. I know you can clamp things together, but that is not always possible, and besides the clamp itself being metal carries away a great deal of heat so that the joint I am trying to solder will not get hot enough. Is there any cure-all for this? —Charles Moyer

ANSWER: There is no cure-all, but there are a number of techniques that can be used and it is up to you to pick the one most suitable for the job. You have already mentioned metal clamps, but also give a thought to wooden clamps which could be wooden inserts in metal jaws or plain wooden spring-type clothes pins. For instance, if you are soldering detail on a boiler that has been built up by wrapping a piece of metal around and soldering it, you can wrap the boiler with wire and twist tight so that even if it does have its solder softened, the boiler will not spring apart.

On such things as signal bridges, you will do a great deal of the work while it is lying down, hence it can be done on a board or piece of asbestos with the parts spiked in place. This will keep previously soldered joints from coming undone.

One wrinkle that helps a lot is to get a little powdered ochre pigment at a hardware or paint store and mix a little of this into a thick paste to be applied over the previously soldered joint. The water dries out when heat is applied nearby, much in the same way as another old remedy, wrapping with wet rags.

A great help in doing close-together soldering is to use a hot iron which is well cleaned and tinned. Then you will have to keep it up against the work for only a minimum of time.

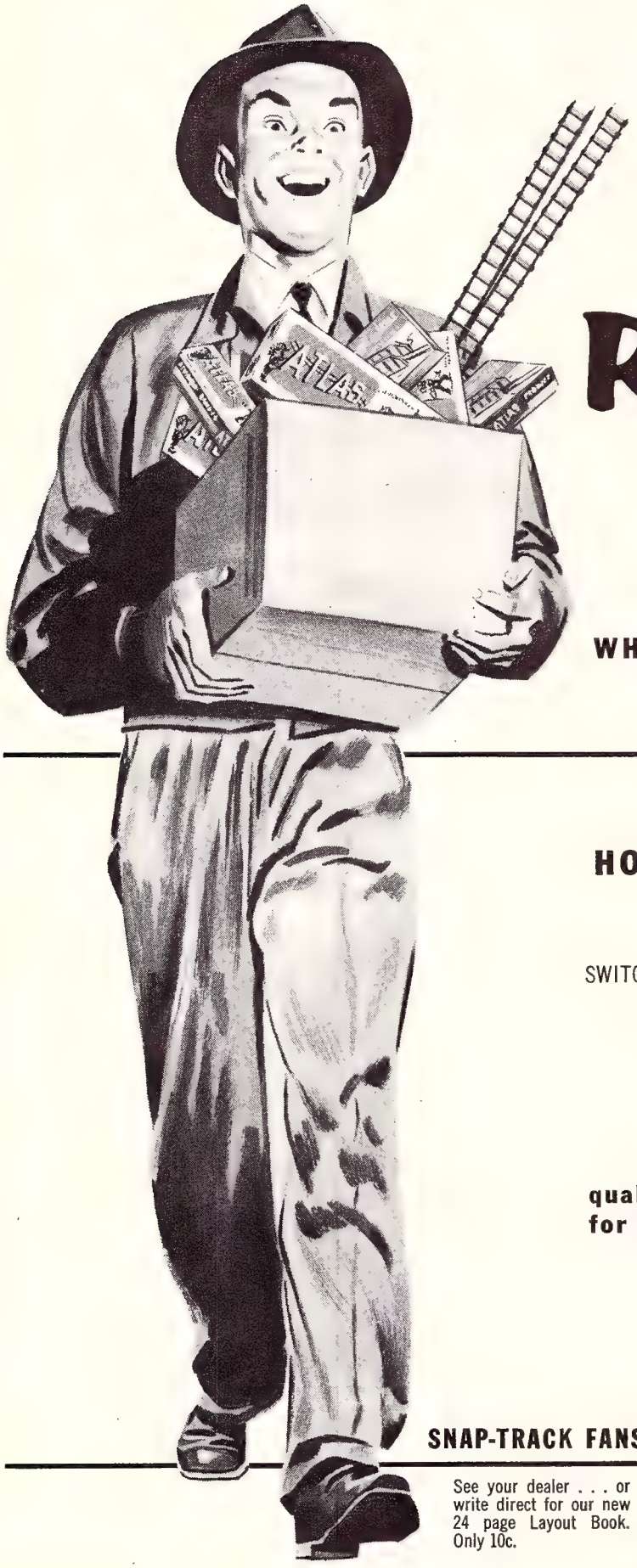
CANCELLATION

Due to unforeseen circumstances, we are of the opinion that the advertiser on the back cover of this issue will not be able to make delivery of the items advertised.

Therefore this is notice that we cannot assume any responsibility for the advertisement of Custombilt Models Inc., Box 474, Ho-Ho-Kus, N. J.

The above information reached us after our covers had been printed.

RAILROAD MODEL CRAFTSMAN



Smooth Railroading Ahead

WHEN YOU INSIST ON GENUINE

ATLAS

HO SCALE TRACK PRODUCTS

CURVABLE TRACK	SNAP-TRACK
SWITCHES & SWITCH KITS	BUMPERS
CROSSINGS	SNAP-SWITCHES
CORK ROADBED	SWITCH CONTROL BOX
RAIL JOINERS	GIRDER BRIDGE
HOOK-UP WIRE	SNAP-CROSSINGS
TIE STRIP	SWITCH MACHINES, ETC.

quality track products...precision-built for smooth railroading performance.

SNAP-TRACK FANS

See your dealer . . . or write direct for our new 24 page Layout Book. Only 10c.

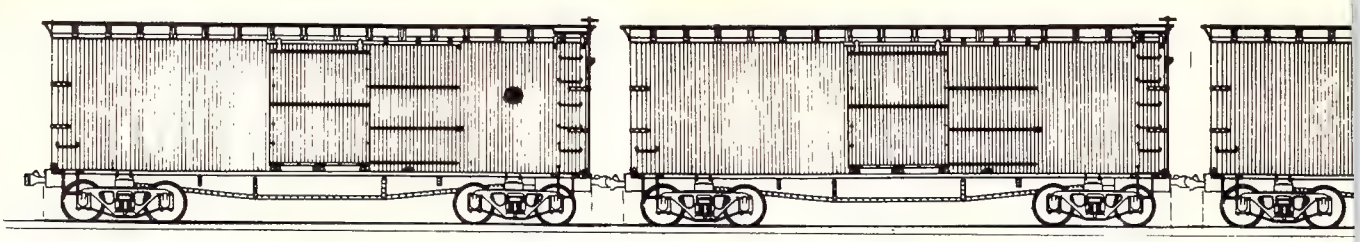
Layout Book
ATLAS TOOL COMPANY, INC.
413 Florence Ave., Hillside, N. J.

Gentlemen:
I tried my dealer and he's "out". Enclosed is 10c in coin (sorry, no stamps) for your "SNAP-TRACK" model railroad layout book.

NAME .....
Please Print

ADDRESS .....

CITY ..... STATE .....



HERE'S A WHOLE TRAIN

While they last, here's your chance to stock up on back issues of RAILROAD MODEL CRAFTSMAN. Build up your model railroad reference library NOW. Take full advantage of these low holiday prices now!

1954 — 12 ISSUES — $3.50

JANUARY
ATSF 1911 Depot: Giebner
2-10-4 in HO: Schopp
Build A Drovers Caboose: HO
Build A Cog Railroad: Part I
First Pullman Car: O: Graff

FEBRUARY
Newton Lines
Miniature Stock Yard: Giebner
Build A Cog Railroad: Part 2
Reverse Loops: Layout Doctor
1859 Passenger Car, O: Graff

MARCH
SP Water Tower: Giebner
Using Tru-Scale Roadbed
Railroad In A Suitcase: Dean
Express Refrigerator Car: Stehle
McKeen Motor Car

APRIL
Composite Gondola, HO: Stehle
Try Freelancing For Personality
ATSF Combination Station, HO: Giebner
Building and Modifying MDC 4-4-2
NYNH&H MU, St. Louis Gas Elec. Plans

MAY
Craig & Mertchford Ry: P. D. Hancock
ATSF Section House: Giebner
4-6-0 from Mantua 2-6-0: Schopp
Bay Ridge Society Model Engineers
Full Color Freight House Cutouts

JUNE
Railroading On The Young Route
Motor Car Shed & Box Car Bunkers
0-4-4-0 Articulated: Schopp
Industries For Your Model RR
Placards For Your Model Railroad

JULY
Steeple Cab Drives For Diesels
Roundhouse, 3 Stall: Giebner
Collecting Model Railroad Passes
Pickle Tank Car: Stehle
Bench & Table Work: Wilhelm

AUGUST
Pennsylvania P-5a modified Plans, O
Mantua oldtime 4-4-0 Conversion
Diesel Shop: Giebner
BAR Pulpwood Car: Stehle
L Shaped Layouts

SEPTEMBER
Elevated Yard Office: Giebner
SP Coach, Diner, Baggage Cars.
Mechanical Switch Control
South Shasta
SP 4-8-8-4 Cab Forward: Schopp

OCTOBER
F-M Trainmaster
Mars Lite Installation
Build A Gallows Turntable
ATSF Materials House: Giebner
RMC STEAM LOCOMOTIVE DIRECTORY

NOVEMBER
Lumberland Railroading
O Gauge Dockside: Part 1: Austin
N&W Covered Hopper: Stehle
Diesel Sand Station: Giebner
RMC DIESEL & ELECTRIC LOCO DIRECTORY

DECEMBER
How To Build A Model RR: Part 1
Nalco Weed Sprayer Car: Schopp
ATSF Fueling Station: Giebner
O Gauge Dockside, Part 2: Austin
RMC FREIGHT CAR DIRECTORY

1953 — 12 ISSUES — $3.50

JANUARY
Donaldson Local Freight
Uses For Mailing Tubes
ATSF Water Plant—Part 1
Narrow Pikes—by Layout Doc
HO Snow Plow, Express Reefer

FEBRUARY
ATSF Water Plant—Part 2
How To Compose Model Scene—Ellison
5 Small Building Plans
Rolling Country Lancscape—Wakefield
BR&L Blueprints, ST Birney: O

MARCH
Constructing 4 Bridges—Ellison
55 ton Hopper Car—HO
Baldwin 1000 hp diesel: Crater
Trolley Track Work—All Gauge
Principles Of Good Layout Design

APRIL
Belvidere & Delta RR: Undermann
Reading 4 wheel caboose—HO
ATSF Fuel Oil Supply—Giebner
BLW Shark Nose Diesel A and B—O
Constructing 4 Bridges—2—Ellison

MAY
Constructing 4 Bridges—3—Ellison
Multi-Level Layouts—Layout Doc
80 ft. Wooden Dining Car—Carstens
1863 Mail Car, 1863 Coach—O
Bunk Car, 50 ft. gondola—HO plans

JUNE
ATSF Sand House—Giebner
ATSF Telephone Shack—Giebner
Reducing A Track Plan—Layout Dr.
Wiggle Inn—Ellison
PRR 2-8-2 Electric Loco Class L-5—O

JULY
Elevated Gate Tower—Giebner
Create & Operate A Terminal—Ellison
D&RG On3 2-8-0 Class C-19 Blueprint
4x8 foot Layouts
Reading Steel Caboose—HO

AUGUST
Coaling Station—Part 1—Giebner
Model Railroading In Britain
Make Figures Of Plastic
Expandable Layouts
Long Island RR 2-8-0C H-51a Plans

SEPTEMBER
Scenery From A To Z—Ellison
Sanka Way Railroad—Schopp
Power Packs—Richardson
BT Birney Trolley
Twentieth Anniversary Issue

OCTOBER
Panamint Valley RR—Campbell
Positive Slow Speed Control
Detailing Mantua Pacific
Sanka Way RR—Part 2
Five Full Color Cutout Bldgs.

NOVEMBER
Cinder Conveyor—Giebner
Add A Branch Line—Layout Dr.
Coaling Ramp—Cochran
HO Gas Turbine—Part 1
Small Terminal Color Cutouts

DECEMBER
Manual Block Control Tower
2-8-0 From MDC 0-6-0 In HO
Build Your Own Turnouts—Ellison
Medium Sized Railroads
Small Engine House Cutouts

1952 — 12 ISSUES — $3.50

JANUARY
Ping Pong Table Layouts
Let's Operate—Mallory
Foolproof Switch Controls
Budd Rail Car—RDC-1, 3, 4
Modeling Old Buildings

FEBRUARY
Mule Train Barney
Three Legged Framework
Interlock Signalling
Railroad Car Ferry—Schopp
Railfan's Notebook—Bartholomew

MARCH
High Level Station—Schopp
B&A Pulpwood Cars—Willmore
Icing The Reefers
Better, Quieter Track—Houghton
Planning A Layout Design

APRIL
The Pacific Type—Alexander
Tricks Of Tracklaying
D&RGW Modern Control Tower
Trolley Line Car—O—Carstens
RMC Layout No. 3

MAY
Sandy River RR—Andrews
Working Power House—Burgess
Work Car NG—Wilhelm
Switch Tricks—Houghton
Aunt Teek Furniture Factory

JUNE
Spotlight RR Crossings—Ellison
Home Of Shake's Beer: Brewery
Operating 2 Trains At Once
Opearting Crossing Gates
Official Car (60' Wood Observation)

JULY
Skew Bridge—Ellison
Build A Burlesque Theater
DL&W 2-6-0C Blueprints—O
Boston El Brill Car—1906
Some Big Layout Designs

AUGUST
Gauntlet Tracks
Old time 4-2-0 In HO
Modeling A RR Cut—Ellison
Ferry Terminal—Carstens
Pennsy 1869 4-4-0—O Blueprint

SEPTEMBER
Magic Of Hills—Ellison
Little Bit Of Texas—Giebner
Two Railing—Schopp
O Gauge Trolley Roofs—Perry
GN 4-6-2 H-7—O Blueprint

OCTOBER
MILW 30 Ft. Flat—Stehle
Umbrella Sheds—Ellison
Inverting A Layout
SR&RL Phillips Yard—Andrews
C P Huntington—O Blueprint

NOVEMBER
Radio Control Tower—Giebner
Coffee Table Layout
Dual Gauge RR Layouts
Type A Tank Car, 1912 Boxcar
Overhead Concourse—Ellison

DECEMBER
Bank Building—Giebner
Scenery Modeling—Houghton
Carters Little River Mills
B&O 4-6-2 P-1d—O Blueprint
Elliptical Station—Schopp

1951 — 12 ISSUES — $3.50

JANUARY
The CNJ at Plainfield
Stub Terminals
HO Paycar by L. Austin
Automatic trolley Turnaround
Mason Vixon Lines (O)
Brill Rail Bus

FEBRUARY
8-Ball Loco. Works, by Brunger
Erie 135 ton flat car
I & G RR (HO), Bill Miller's
NYCRR Fire Fighting Car (O)
Hertz—The future of O gauge
Double Gauge Turnout

MARCH
SP Gerber engine house (O)
Frt. traffic at a cement plant
CNJ 0-8-0 camelback (O): Crater
Korean and Japanese models
NYCRR caboose (HO): Deutsch
Lights and chickens: Crosby

APRIL
Mt. Washington Cog Ry
1915 gasoline loco. (HO)
NYCRR Caboose (HO): Part 2
Abbottsville & Western RR (S)
Gay Nineties Stations
Foldaway layouts

MAY
RMC Layout No. 2
Poultry car (HO): Miller
NYCRR Caboose: Part 3
Trestle bridge
J W Bowker in HO
Retaining Walls

JUNE
Semi-well pocket flat car (HO)
Vinegar Valley Lines (HO)
Freight Station: Brunger
Model Carrying Case
J W Bowker (Part 2)
NC&StL K-2 Pacific (O)

JULY
Auto coupler (HO): Prudhomme
Kenn Valley Lines (HO)
Little Louis 0-4-0 (HO): Schopp
Planning a model rr: Martin
Double slip switch in HO
4-4-0 from C P Huntington (O)

AUGUST
100 years on th Erie RR
Covered Cement hopper (HO)
Automatic coupling ramps (HO)
Cellar railroading: J. Kemp
Planning a model rr: Part 2
Double slip switch: (Part 2)

SEPTEMBER
2 pint size pikes in HO
Visible frt. car loads
Ute Short Line: Earl Cochran
The Electra Switch Machine
Pickle Car—HO—Miller
Diesel servicing

OCTOBER
Layout Doctor with 4 layouts
Fooling your spectators
The Silvertta Road (HO): Steen
Troop Sleeper (HO)
Remote control hookup
Kemtron's Brill Rail Bus

NOVEMBER
Hump Yard Design
Locomotive headlights
Converting the Mantua "Belle"
Converting the Varney "Little Joe"
Slope back tender—HO—Miller
V&T Flat car plans (O)

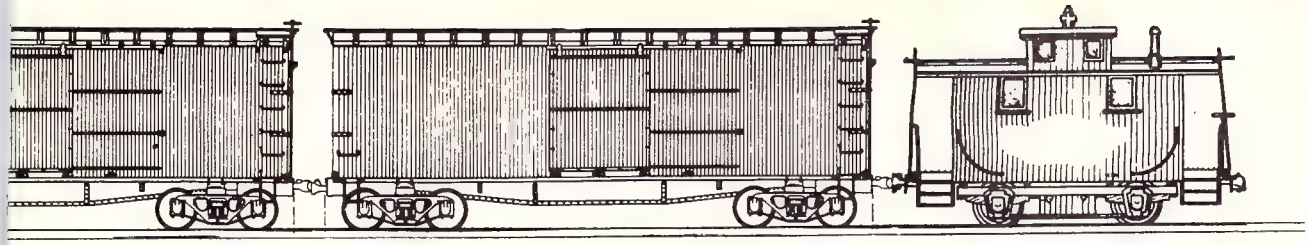
DECEMBER
St. Louis TRRA: Carstens
Clearance Car—HO—Schopp
Baldwin road switcher—HO
Simple Wiring—Houghton
Frost on th layout—Crosby
Model Hump Yard

BETTER HURRY!

* The publisher reserves the right to substitute older issues in the event that our stock of any issue becomes exhausted.

MANY OF THESE ISSUES IN SHORT SUPPLY

There's a tremendous thrill awaiting you as you go through page after page of these wondrous issues, all loaded with the type of model railroad information which you as a model railroad builder should have at your fingertips, ready for immediate use.



LOAD OF BACK ISSUES

1950 — 12 ISSUES — $3.50

JANUARY
Citrus Empire RR (O)
Corner engine terminal.
Hints on trolley wire
South Dakota Central RR (HO)
C&NW 4-4-0 No. 195—HO Plans
MoPac Gondola (O)

FEBRUARY
Protostory: Bronx Frt. Terml.
Bumping posts (O)
Scenic Landscaping: Dance
Using electronic control
TARS semi-conv. ST No. 1701
American Flyer Wide Gauge

MARCH
Chicago Museum Model RR (O)
RMC Layout No. 1: Design
Forming city backgrounds
NKP Alco and BLW diesels (HO)
Painting the scenery: Dance
SOU & EREX Hopper car plans (S)

APRIL
Cleveland RR Club O gauge layout
Modeling Culverts: Dance
Trolley Express Car: Long Valley (O)
RMC Layout No. 1—trackwork
GN EMD pass. diesel (S)
Virginia & Truckee 4-6-0 No. 26 (HO)

MAY
The Panama RR (protostory)
CNJ No. 1000—the first diesel
Modeling Culverts: Dance
50 ton dump car (S Plans)
Trolley Express car—Part 2
DL&W 4-4-0 No. 988 (S plans)

JUNE
Outdoor RRing: Long Valley O line
LATL Rail grinder (S)
Tender truck boosters (HO)—Austin
V&T combine and baggage cars (HO)
CofG 2-8-0 No. 200-214 (O Plans)
CNJ first diesel—Part 2

JULY
USRA light 4-6-2 (HO)—Part 1
CNJ Newark Terminal: Crater
EG atlantic in HE (1 16) Gauge
Economy motor truck: Long Valley
Foldaway Model Railroad
MKT Caboose (HO)—Austin

AUGUST
CNJ 4-8-0 camelback (O)
Modeling waterways: Dance
Grand Valley RR (HO)
C of G 0-6-0 tank engine (S)
USRA 4-6-2—Part 2
C&O detailed caboose (O—Part 1)

SEPTEMBER
Truss bridge: Dance
Building grades: Schopp
NCNGRR tank car (HOn3)
C&O Caboose—Part 2
USRA 4-6-2—Part 3
CNJ early automatic signal (O)

OCTOBER
Venango Northern RR—Livingston (HO)
CNS&M B-B-B-B—Soverel
Rdg 2-10-2 (O)—Crater
USRA 4-6-2—Part 4
Coaling station—Dance
C&O Caboose—Part 3

NOVEMBER
2'x8' HO railroading
Grusome's Grain Mill (HO) Brunger
Rdg 2-10-2—Part 2
Designing a layout
USRA 4-6-2—Part 5
3 MU cars from 2 Pullmans (O)

DECEMBER
Showcase for your models
Brill rail bus in HO
Use black light on your railroad
The Channel Line (O) at Christmas
Old time wood gondola (HO)
V&T snow flanger. O plans.

1949 — 12 ISSUES — $3.50

CNJ Highbridge Branch
Trolley Loco: Part 3
Pullman Observation: Part 2
4-4-4 Live steamer (1½")—Part 1
Quartering drivers an easy way
HO Steam motor car—Schopp

FEBRUARY
Building a 4-4-0—Dance (HO)
B&O 2-10-2 Sta (O)
CNJ Highbridge Branch—Part 2
4-4-4 Live steamer—Part 2
Trolley bus control circuits
Getting started: Barkeley

MARCH
Interurban Official car (O)
O reefer by Lewis Austin
4-4-0 in HO—Part 2
N&W Class J-2 4-8-4—Part 1 (O)
4-4-4 live steamer—Part 3
Scenery, It's Easy—Crosby

APRIL
EMC Passenger Diesel in HO
Getting started—Part 6
Bay Ridge Model RR Club (O)
Official car—Part 2—Hoffman
CNR 4-8-4—Data and S plans
N&W 4-8-4—Part 2

MAY
Here comes the circus
Fully automatic turntable (HO)
Canada Great Western Ry (O)
Official Car—Part 3
N&W 4-8-4—Part 3
4-4-4 Live steamer—Part 4

JUNE
Model RR That Folds Up
Alco 1000 hp switcher (HO)
Mt. Tamalpais & Muir Woods RR
Quartering device for drivers
Pickle car (O)—Bartholomew
Two power wiring circuits

JULY
RR That Folds Up—Part 2
Helium Tank Car—Bartholomew (O)
PRR G5s 4-6-0—HO Plans and data
Remote control pantographs
4-4-4 Live Steamer—Part 7
Weathering model equipment

AUGUST
California models and prototypes
Modern home modeled in plastic (O)
ATSF 4-6-2—Plans and data (HO)
Live steam review
SP Box car: PFE Reefer (HO)
4-4-4 Live steamer—Part 8

SEPTEMBER
Modeling from Photographs
Modern home in plastic—Part 2
Express reefer (O)—Austin
Small frt. house (NYCRR)—HO
CNJ 0-6-0 camelback (O)—Crater
Disappearing apartment railroad

OCTOBER
B&M gondola in O gauge—Austin
Control of model trolley lines
Oakland Antioch & Eastern Ry (Ot)
BLW 1500 hp diesel road switcher (S)
Interlocking towers
Live steamer information

NOVEMBER
Electronic control: J. Nixon
Stanton Central RR—British OO
Gingerbread to age your buildings
Cement Hopper (O)—Bartholomew
Wooden combine in HO—West Shore
Flag stop stations in Indiana

DECEMBER
1892 Union Line box car (HO)
United Electric Railroads (Ot)
4-4-0 camelback—CNJ (O)—Crater
Open end gondola (HO)
Camouflaged operating space
Trains and the Christmas Tree

1948 — 12 ISSUES — $3.50

JANUARY
Standard steel caboose (O)—Austin
Building fronts for scenery
Eastern Mass. semi-convertible (O)
Bill Schopp's Memoirs—Part 2
Electricity—Direct Current
Gallows frame turntable (O)

FEBRUARY
Inspection engine (O) "Star"—Crater
Planning model RRs with 3D
Memoirs By Schopp—Part 3
Reading 4-2-2, BLW 1892 (O)
Transfer Table (3/8")
Soldering made Easy—Austin

MARCH
Trolley street sprinkler (O)
CNJ Inspection engine—Part 2
Bill Schopp's Memoirs—Part 4
Gas Electric (HO)—Carstens
NYNH&H 0360 electric loco (S)
NYNH&H caboose (S)

APRIL
GE 0-4-4-0 Elec. Loco (O)—Austin
Long Island Model Railroad (O)
Getting Started, John Barkeley
Fuel Dealers Yard—Crater
Bunk Car, CNR (O)
Wayside Station (O)—Schopp

MAY
GE 0-4-4-0—Part 2
B & O O gauge layout
Using the watchmaker's lathe
BLW 2000 hp double end diesel (O)
The tools needed for model ring
Vertical twin cylinder steam engine

JUNE
GE 0-4-4-0—Part 3
BLW (CN) 2000 hp diesel—Part 2
Third Rail Shoes (O)—Long Valley
Arched roof mu cars(HO)—Carstens
DC 12 and 24 volt power supply
Basic layout designs and framework

JULY
GE 0-4-4-0—Part 4 (O)
Automatic wyes for street Rys.
Basic electrical principles
New York Ontario & Western Ry.
Streamlined cars (O)—Crater
O gauge pile driver

AUGUST
SP 0-6-0 (HO)—Austin—Part 1
Ice trolley and line car (O)
Streamlined diner and coaches (O)
5 basic trolley poles (O)—LVERY
CNJ 2000 hp BLW diesel (S)
CPR 3 door baggage car (HO)

SEPTEMBER
SP 0-6-0 (HO)—Part 2
Trolley pole bases (part 2)
Train of Tomorrow loco.—HO
Whitcomb diesel in HO—freelanced
Observation car (O)—Treat
CV snow flanger (HO)

OCTOBER
SP 0-6-0 (HO)—Part 3
Bellows Falls, Vermont (Protostory)
Train of Tomorrow—cars (HO)
Express cars (O)—Crater
G&D 2 stall engine house—John Allen
Correct freelancing—Bill Hoffman

NOVEMBER
G&D Engine house (HO)—Part 2
SP 0-6-0 (HO)—Part 4
Train of Tomorrow—conclusion
Turntable for HO—Bill Schopp
Electric Trolley Locomotive (O)
TT water tower—Healion

DECEMBER
4 comp. Pullman Observation (O)
Elec. Loco. (O) Part 2
NYS&W Little Ferry Terminal
G&D Engine House—Part 3
BLW 3000 hp diesel for SAL (HO)
Gas electric (HO)—Ray Staples

MAIL TODAY

The above listings briefly describe some of the featured material in each issue. In addition, there is a wide range of constructive data, plans and building articles in every copy. All magazines are complete and contain fresh projects and building ideas that can be put to use on your present pike. Here's your chance to fill the gaps in your own model railroad library But rush! Supplies on many issues are low and cannot be replaced. Orders will be filled on a first come, first served basis! Use the coupon today.

RAILROAD MODEL CRAFTSMAN
ROUTE 17
RAMSEY, NEW JERSEY

BACK ISSUE DEPT.
ROOM 11

Please rush the complete sets of back issues as checked below. I enclose a check or money order for $..... in payment. (Please do not enclose cash).

- ☐ 1954 — 12 issues
- ☐ 1953 — 12 issues
- ☐ 1952 — 12 issues
- ☐ 1951 — 12 issues
- ☐ 1950 — 12 issues
- ☐ 1949 — 12 issues
- ☐ 1948 — 12 issues
- ☐ 1947 — 12 issues

NAME .....

STREET .....

CITY ..... ZONE ..... STATE .....

(Please print or type. If you do not wish to clip magazine, enclose your remittance with letter).

STOP RUNNING AROUND IN CIRCLES!

Looking for the perfect finish for your models, scenery, layouts, etc.

USE FLOQUIL MODEL RAILROAD COLORS

Selected by the best as the best!

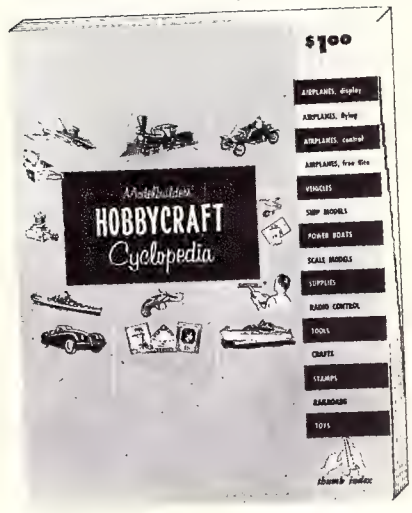
Smooth, metal plate finish. They go further, last longer and REALLY STAY ON! Ask your dealer for the new, economical FLO-JET Flat Black Spray Can. Requires no metal primer. Only $1.98 for large 12 ounce-size.

ACCEPT NO SUBSTITUTES!

Look for A Floquil PRODUCT *Seal of Quality*

Write to FLOQUIL

COBLESKILL, N. Y.



AT YOUR DEALER!

BIG HOBBYCRAFT BOOK

Only $1.00

244 Pages — 8½ x 11"
25,000 Items Described and Illustrated
48 Page Railroad Section

The Modelbuilders' Hobbycraft Cyclopedia is the most complete model book ever published. Includes flying and display model airplanes, ships, race cars, old time cars, railroads, tools, model supplies and handicrafts. All items completely described and illustrated. Get it at your dealer . . . only $1.00. No mail orders will be filled.

Published by

NATIONAL MODEL DISTRIBUTORS

CHICAGO 14

"Off'n the table top"

News and Views of TT

By Glyn Lewis

AH, the blessed cool weather is with us again. Perhaps by the time you read this it will be cold, or a late heat wave, but as this is written in August's last days, it's cool. Vacations are over, and only a happy memory, to be relived in a darkened room as we look at our Kodachromes come to life on the screen. This year the ever lovin' wife and I went once again to Nantucket Island, Mass., and found out some of the story of the Nantucket RR, that 7½ miles of narrow gauge that ran out to 'Sconset until it was scrapped in 1917, its locos had hauled cars filled with happy vacationers, Presidents, and famous people of all walks of life. The story is told of the famed and lovely Lillian Russel on her visit to Nantucket. Seems that when it came time for Miss R to leave 'Sconcet (actually spelled Siaconset, but called 'Sconset by we "Natives") the male population were loath to see her leave. In order to prevent her departure, at least temporarily, the young bloods greased the tracks, on a slight grade just outside the village. The venerable American couldn't make it and during the delay, while the male passengers poured handfuls of sand on the rails, out of the darkness came voices lifted in song, serenading the beautiful actress. The old station still stands in Nantucket, now the "Country Store", and mounted out front is the large square headlight of the old loco. Not the last loco, that one went to France with the A.E.F.

Sherman Dance, New Jersey's gift to TT went to Canada on his vacation, tells us he got quite a lot of 16 mm. footage of STEAM IN ACTION north of the border. We hope to get over to the Dance manse in the near future and see 'em. We remember when we were much, much younger, many people went north to visit our Canadian cousins in search of "fire water", now it seems we must go cross the border in search of "boiled water". (Steam to you!)

But the summer wasn't all vacation, not by a long shot! The TT manufacturers spent a great deal of it hard at work getting new products ready for us. As promised Sherman Dance has his new cast metal box car now available. Kit No. BM-1, it is priced at $1.85 less trucks, but including H.P. automatic couplers. Decals are not supplied with this well detailed car, but are available from "Gandy Dancer" for 20 roads at 15 cents per set. Incidentally, this car is packed in the new "Gandy Dancer" box. Really novel and very attractive. Erik Nielsen, who has been most quiet all summer, but working like a beaver, has come up, after nearly a year of experimentation, with a really fine plastic: strong, non warping, and tops for reproducing detail. He has or will soon have available, wood and steel type box cars, wood and steel type "reefers", coaches, cabooses, flats, etc. Erik has also produced plastic wheels. We are at present testing these items, and so far all tests seem to point

Meet engineer Bill Srulla, who rides the TV rails on his Cartoon Express show over station KHJ-TV, Channel 9, in Los Angeles. With Bill is John Lustig, of Roberts Enterprises, who built the 5' x 5' TT layout shown in the photo. The railroad has five separate loops.

to a very fine product. More on this next month. Hal Joyce, the wizard of Hartford City, and the "Big wheel" of H.P. Products didn't spend the warm days getting a tan, Hal tells us he is going full blast on new products. Planned are spoked drivers for the 0-6-0, improvements for all locos, metal box cars. H.P. reports sales way up from last year and this bodes well for the "55-56" season

Seems just about everybody found time to write to us, and we hope to be all caught up on our correspondence very soon. In the bulging mail bag this month was a very nice letter from a TTer in Bussum, Holland, Mr. J.A.G. Kauderer. Mr. K. has been an active HOer for over 15 years, some time ago read an article in a Swedish magazine about the German "Rokal TT", got him interested in our gauge. Although he is in electronics (for 25 years) and owner of the RCA firm in Holland, Mr. Kauderer established a hobby shop to spread the gospel of TT. (Boy, when you get bitten by the TT bug . . . you're GONE!) Mr. K also has his own hobby magazine "Handig Bekeken" with a healthy circulation of 20,000 a month! He is desirous of getting photos of American TT for his mag. Now all you TTer and photo bugs, how about it? Send your photos to, Mr. J. A. G. Kauderer, Postgiro 649947, Bussum, Holland, Lothariuslann 74. You will be helping TT, and will see your photo and name in the publication, as Mr. Kauderer will send you a copy.

Many of you have written in asking about TT accessories, particularly autos, trucks and the like. Yes, they are available. Both "Gandy Dancer" and E. S. Nielsen have cast metal trucks and autos in TT. Trees are available from Tru-Scale, Jean Carpenter, Gandy Dancer, and see the clever new imported plastic trees from Faller (Polk's in N.Y.C. has 'em). They are amazingly realistic and one of the easiest and most novel "put together" trees we have seen. "People" in TT are made by Weston (3) and "Table Top Miniatures" (over a dozen) and are to be had at all good hobby shops. By the way if your hobby shop has not yet gotten wise to TT. SHAME ON HIM! Tell him that there is plenty available, and both manufacturers and distributors are anxious to service him, fr'instance if you are on the west coast a real "live" distributor is Roberts Enterprises in Hawthorne, Calif. They are doing a real job of selling TT via TV. See TT on Channel 9 KHJ-TV, Los Angeles. On the east coast John Marshall Associates in Bridgeport, Conn. is proud to say "If it's TT we have it." Many, many more are now stocking TT, and happy about it!

If you are interested in TT reading material we suggest you get the fully illustrated 20 pager from H. P. "Gandy Dancer" has their all new profusly illustrated catalog "C" ready. If you haven't yet gotten Kemtron's all new 8 page TT brochure, don't delay another day! WOW!

We can't say more (at present) but watch Kemtron and AL.CO Hobbies for *new TT rolling stock very soon!*

Write in SOON, we want to hear what YOU are doing in TT. See you next month, Cherio.

glyn

TT

For Performance
For Detail
For Realism
For More Fun

Try Railroading in TT

That's right, model railroading in TT helps you have more fun in less space. You can even build a complete pike on a card table — in larger space you can build a true scale empire. Our TT line features smooth operating equipment with realistic detail — and all at a price you can afford. Here are but a few of the many items from our complete line:

Pacific Kit (4-6-2)	$29.95
Consolidation (2-8-0)	26.50
Mikado (2-8-2)	31.50
Mountain Type (4-8-2)	33.50
Atlantic (4-4-2)	23.50
Articulated (4-8-8-4)	60.50

Above locos are in kit form, require no soldering or drilling; a real pleasure to assemble and operate. Each loco is authentically scaled and designed for rugged service. All are equipped with Pittman motors and a tender — nothing else to buy.

NEW — For Diesel Enthusiasts

*Diesel Power Trucks	$14.50
*Diesel Power Truck Frames	3.00
*Diesel Kit (Avail. Next Month)	23.50

Send 10c for our complete catalog describing 20 different locos plus passenger and freight cars, even complete train sets. Get your copy today.

HP PRODUCTS COMPANY
Box 350A Hartford City, Indiana

WANTED: BOOK MANUSCRIPTS

A publisher with high standards will be happy to read your manuscript on any subject, railroad or general. Intelligent editing, emphasis on book sales, a fair, honest cooperative contract if your work is acceptable. Write, or mail your manuscript directly, without obligation.

GREENWICH BOOK PUBLISHERS, INC.
ATTEN. MR. YATES, 489 FIFTH AVE.
NEW YORK 17, N. Y.

When writing to advertisers, please mention Railroad Model Craftsman

MODEL RAILROAD SUPPLIES EXCLUSIVELY

Hi Quality MODEL DISTRIBUTORS

We Sell Wholesale Only
7655 Melrose Avenue Los Angeles 46, Calif.

GANDY DANCER CAST METAL TT BOX CAR

The newest to the "Gandy Dancer" line . . . a metal Box Car and made of *metal*. Sides and ends are die cast with plenty of rivet detail, etc. Included too are the metal cast Brake Platform, AB Brake System, Roof End Walks, Automatic Couplers . . . Dreadnaught Ends. Body kit complete with Automatic Couplers, $1.85

TRACKS BEAUTIFULLY WITH ADDED WEIGHT
EXCLUSIVE TT CATALOG "C" (28 Pages)
Postpaid, 40¢

SHERMAN E. DANCE
BOX 92 WEST ENGLEWOOD, N. J.

ROBERTS ENTERPRISES

TT 5431 West 123rd Place
Hawthorne, Calif.

ORegon 8-0072 OSborne 6-5805

Distributors for:

ALCO HOBBIES — KEMTRON
JEAN CARPENTER — E. S. NIELSEN
SHERMAN DANCE — PERMACRAFT
HOBBYLINE — ROKAL (ready to run)
H. P. PRODUCTS — STAR PRODUCTS
UNIVERSAL MODELS

At your better hobby shops in:

CALIFORNIA

BELL
Robbie's
7613 Atlantic Ave.

BELLFLOWER
Veteran's Hobby Center
17211 Bellflower Blvd.

BEVERLY HILLS
Dan Foster's Hobby Junction
9895 Santa Monica Blvd.

BURBANK
Hobby Junction
834 Hollywood Way

CULVER CITY
J & M Hobby Supply
10770 Washington Blvd.

INGLEWOOD
Hobbyland
1205 N. La Brea

LAWNDALE
Model Rail Depot
16324 Hawthorne Blvd.

LENNOX
Lenox Hobby Shop
4418 Lennox Blvd.

LONG BEACH
Brownie's
2031 Pacific Ave.
Ray's Hobby Model Supplies
1222 American Ave.

LOS ANGELES
Allied Models
10838 West Pico
Model Craft
8945 S. Western Ave.
Troxel Bros. Models
202 S. Western Ave.

NORTH HOLLYWOOD
Valley Plaza Hobby Shop
12135 Victory Blvd.

SANTA MONICA
Aero Hobbies
1319 Santa Monica Blvd.

STUDIO CITY
Valley Modèl Railroad Shop
12041 Ventura Place

TARZANA
Valley Hobby and Art Center
18648 Ventura Blvd.

WASHINGTON

EVERETT
Everett Model Shop
2605 Colby Ave.

ROKAL TT

Ready to Run

Diesels—Locos—Freight and Passenger sets—all die-cast.

Send 10¢ for 1955 catalog

ACTION MODELS
Box 72, Outremont P. Q., Canada

TT Catalogue

ORDER BY MAIL FROM THE MOST COMPLETE TT STOCK IN THE U.S.A.
CATALOG 10c

ROBERT McMINIS
221 Ralph St. Belleville, N. J.

"SWAPPERS COLUMN"

A free trading service open to all readers. Non-commercial items sent are published free and in good faith. RMC can assume no responsibility for differences occuring between reader and advertiser. Make sure that you understand all details of trades before concluding negotiations.
Items submitted to this column must be kept short be printed plainly. Abbreviate where possible. Priority will always be given those sending in ads not more than once every three months. We cannot repeat ads and we reserve the right to reject those we feel are objectionable or beyond the scope of this free service. Ads over 50 words in length will be returned for shortening. Specify category desired: WANTED, TRADE, RAILROAD PASSES, SALE OR EXCHANGE, COLLECTORS. No commercial classified ads accepted.

WANTED: Lionel 700EW scale Hudson tender in good condition. All inquiries answered. Have some late Lionel "O" equip, for sale or trade. locos and cars (some brand new). G. F. Beaman, 500 Stone Ave., Brooklyn 12, N.Y.

PASSES EXCHANGED: Sagalot Central Railroad. Marvin Kershner, 951 Summit Ave., Hagerstown, Md.

FOR SALE: Marx train equip.; 7 freight, 3 passenger, 33 sec. track, Pacific loco & tender; trans, 1 pr. switches, whistling stat., 1 crossing. $25.00 cash. Gd. cond. D. Mulkins, Box 315, Fairfield, Iowa.

WANTED: "O" gauge equip, in running cond. or not; Lionel Hudson 773, 763, 700 and scale switch engines in running cond. or not; Auburn freight cars, will pay cash or trade HO, S, 027, O gauges or antique equip. M. A. Jones, 715 Worthington Ave., Lockland, Ohio.

FOR SALE: $100.00 worth Lionel 027 equip, excellent cond, $50.00 takes all. Send stamp for list. R. Bergey, 215 Westminster Ave., Merchantville, N. J.

FOR SALE: 11 Rail Craft hopper & gondola kits; 4 Thomas wine & tank cars; 1 Hines O-8-0 Loco kit; J.C. N.Y.C. diner kit; Kemtron GP7 & Alco; 1 Boley Jewelers Lathe & acc. Stamp for price list. L.G. Myers, 21 Silverside Rd., Wilmington 3, Del.

FOR SALE: Large selection HO equip.; cars, locos, acces., etc. Send stamped envelope for list. R. Mikita, 34 Carole Ct., E. Meadow, L.I., N.Y.

HAVE: A.F. O gauge tiplate track & switches; WANT: A.F. S gauge 3/16" scale equip. Wm. Burns, 1041 Thomas St., Hillside, N. J.

FOR SALE: 2900 Lionel cars; 072 R.C. switches; No. 313 Bascule bridge; No. 182 crane; Auburn freight; will trade for new Lionel 2330 GG-1 W. Shane, 24 Yorktown St., Oceanside, N. Y.

SELL OR TRADE for HO: Lionel 027 Erie Diesel set, excel. cond.; O gauge 2-6-2, gd. cond.; O gauge semi-scale 2-6-4, excel. cond.; pr. new 027 R.C. sw.; track, switches, operating cars & acc.; reasonable: send for list. K. Rower, 11 Maplewood Ave., Newton Ctr. 59, Mass.

WANTED: Person to paint my cars & engines; Prefer local person; also trade passes. R. Zukofsky, 54 Sycamore St., Belmont 79, Mass.

WANT TO TRADE: Have Mantua Pfc., excel.; Hobbytown E7 Dual powered DC91, want to trade for Bowser Mt. kit or built up or trade E7 Diesel for M.D.C. 060. L. Woolridge, Martha, Okla.

FOR SALE OR TRADE: Varney HO F-3 Diesel A unit with motor; 5 cars, new; trade for 8mm movie equip. Bell & Howell, Keystone or Kodak. R. Slocum, Loup City, Nebr.

FOR SALE: Lionel locos 773, 763, 736; scale switcher eng. 1668/1656; KW transformer & catalogs; American Flyer 310, 322 locos; other train equip. E. Bernstein, 23 Wyoming Dr., Huntington Sta., N. Y.

WANTED: Ives No. 131 baggage car (orange) gd. excel., cond., complete; Ives No. 50 baggage car (green) in same cond. R.S. Galbraith, 214 Cedarhurst, Pittsburgh 10, Pa.

FOR SALE: Super detail, sprung driver 2-8-8-4 with 14 wh tender, painted & weathered; other super detail locos, cars, turntable, etc. at reasonable prices; write for list. P. Whitson, 603 W. Division, Pleasanton, Calif.

FOR SALE or TRADE for HO: Discontinued Red Ball "Oldie" kits, never opened, less trucks couplers; 20 MFW ground throws 35c ea.; Trade for new style Kadee couplers or make offer. Wm. Bell, Rockford, Wash.

TRADE: 2 new Selenium Rectifiers, full wave 10 amp. Mallory S36B7M for HO International South Shore Electric loco; need not be in running cond.; will ship express collect with full inspection privileges. J. P. Groves, Box 221, Rockport, Wash.

FOR SALE: OO ga. Scalecraft freight & passenger cars in kits, $2.50 ea. B. Herman, 10733 Palatine, Seattle, Wash.

SALE or TRADE: AF S ga. for HO with NMRA couplers; send stamped envelope for list of rolling stock & equip.; S. Cohen, 252 Princeton Blvd., Lowell, Mass.

SWAP: HO Mantua Mogul, 5 freight cars, Mantua 4 wh. caboose, all gd. cond. Want: Electric Spanish guitar, gd. cond. J. Lingenfelder, Box 104, Gasconade, Mo.

HO SALE: HO equip. Selling all. Stamped envelope for complete list. C. L. Hoff, 201 W. Main St., Hicksville, Ohio.

WANTED: Train records; calendar or lg. train pictures. O.L. Agee, 112 Hawker St., Dayton 10, Ohio.

SALE: Lionel O-27 trains, equip, acc., excel. cond. W. D. Sproules, 39 Taylor St., Dorchester 22, Mass.

SALE: HO: 2 Varney Pacifics, Mantua Mogul, 1 F-3 A unit (both trucks powered brass const. by Dallas Modelcraft), obs., baggage 2 Custom built Pullmans, 7 freight cars, 2 Ohmite rheostats, $100.00 for entire lot. R. Cantlay, Jr., 5919 Flores Ave., Los Angeles 56, Calif.

SALE or TRADE: Back issues RAILROAD MODEL CRAFTSMAN, Many Model Railroader, Modelmaker, Railroad Magazine. Stamp for list. H. T. Smith, Box 4115, Pasadena, Calif.

SALE or TRADE: Lg. collection model & RR mag. Copy of "Hamilton's Complete Model Airplane Manual." Send list of needs, and what have you to trade? G. M. Sauder, 5641 Peach, Erie, Pa.

SELL or TRADE: U.S. and Foreign stamp coll. Many Comm. 10,000 stamps. Want HO. Stamp for list. L. R. Westphal, 10255 S. Turner, Evergreen Park 42, Ill.

SELL: New Lionel cars, other acc. Will trade passes from Grand & Osage RR. J. Port, 707 S. Main, Windsor, Mo.

SALE or TRADE: Lionel "O" ga. Electronic train #4110WS, with 621R steam turbine eng., box, dump, gondola cars, caboose, $200.00 new, used 10 hrs. in perf. cond. Take $85.00 cash or trade for Lionel "O" ga. Diesel equip, and acc. M. J. Goldberg, Box 68, Mather AFB, Calif.

SALE: HO Varney plastic Brute A p'wrd, B dummy. Steel reef, box, flat, tank cars, coach, 2 shay. Plastic box, tank cars. English plastic gondola, flat, box, caboose. Assembled. Gd. cond. Test run only. $30.00. J. Craker, 512 W. 9th St., Erie, Pa.

TRADE: Exchange passes on Stoney Brook Central RR for yours. G. Castor, 13 Lamb St., S. Hadley Fls., Mass.

SELL or TRADE: Lionel & Plasticville. Latest eng., cars, acc. trans. track. Trade for AF in gd. cond. Send for list. G. Leitsch, 19 Chapman St., Pittsburgh 5, Pa.

SELL: English Pacific with valve gear parts. Gd. cond. B. Lowery, 49 Charlemont St., Newton Hlds., Mass.

SALE or SWAP: 13½ x 22½ photo repro. of detailed, dimensioned drawing of CNJ supt. loco Star. Excel. for modelers. $1.00 folded, $1.25 rolled. Orig. for sale. Swap for CNJ orig. negs. R. D. Fullerton, 54 S. Delmar, Dayton 3, Ohio.

WANTED: Lionel #5 or #6 std. ga. loco. Pay cash. J. McKercher, 5 E. Pike St., Canonsburg, Pa.

TRADE: HO locos, new, for 8 mm movie camera in gd. cond. J. Higbee, Route 2, Box 895, Aptos, Calif.

SELL: Mantua—Tyco Baldwin A&B unit Diesel, $16.75 for 1, $32.25 for both. Test run only. B. Pippin, 4th St. sw, Moultrie, Ga.

FOR SALE: Lionel 700, 763 prewar Hudsons. 708, 8976, 227 Penn. Scale Switchers. 700 series Scale freight cars. 072 switches. E. DeMarco, 1150-60 St., Brooklyn 19, N. Y.

HAVE: Airplane eng. Bantam .19 run 20 hrs. Hurricane .24 run 8 hrs. New Herkimer Super .60 Ignition type. Excel. cond. Want: HO Belle of '80s, General, other old time items. F. F. Schuck, 3912 28th Ave. S., Minneapolis 6, Minn.

SALE or TRADE: Tinplate catalogs, tinplate locos, cars for ¾" live steamer. List on request. J. A. Hortung, 4115 Francis Ave., Cincinnati 5, Ohio.

TRADE: 12 HO box, tank cars for?? HO equip. K. Rogers, 1653 W. 105th Pl. Chicago 43, Ill.

WANTED: Conover equipment particularly 2-10-2 and 4-4-0 models. E. R. Conover, Jr. Aurora, Ohio.

TRADE: New HO: & Lionel for pre-war electric trains, any gauge, make or cond. Write stating what you have and what you want in new kits. Al Hart, 43 St. Regis Dr. South Rochester, N. Y.

FOR SALE: Lionel #736 Berkshire, $30.00, A-1 cond. Charles Hill, 31 E. Knight Ave, Collingswood 7 N. J.

SALE or TRADE: 2 Lionel man switches, crossover, 20 sect. of track. Lionel eng. 252 and cars 607 and 608 fair cond. Want HO. equip. H. Lindquist 424 E. 51 St., New York 22, N. Y.

SALE: Lionel Locos, 623-675-685-726-736-1656-2026-2035-2036-2025. GG 1-NYC and ATSF diesels. Ed. Beckwith, 235 E.School, Kent, Ohio.

FOR SALE: O-27 track, Marx: 12 large radius at 15, 42, straight at 10, 16, curved at 10, Lionel 8 curved at .20, straight at .20, all 84 pieces $9.00 excel. cond. S. Miller, Winnemucca, Nev.

TRADE: Westchester Coaling station, diesel serv. sta., sand tower & house, Oil dispenser. Mantua: Sharknose, Trolley with E.T.M. Super-detail kit. 3 red-ball oldies. Want: Varney Swift, Casey Jones, INT. O-6-0 USRA, any make P.R.R. pass or head-end cars. Rund House turntable. Richard W. Tyde, Stephenton, N. Y.

SALE: or swap for TT. gauge eqpt. Varney F-3 A.B.A. Scalited—all PWRD. 12 Frt.—4 Pass. cars. All gd. cond. Plus Misc. Parts. Send for list. D. M. Hartigan, 2010 Senenca St., Buffalo 10, N. Y.

SWAP 7 locos, frt. cars, kits, parts & old RR model mags. Value $2.00 for power saw or other home workshop tools. R. S. Lippman 9209 Chanute Dr., Bethesda, Md.

SALE: HO equip only. Steam & diesel eng., pass. & frt. cars, buildings & trains. Sell also some beautiful pictures & some excel books profusely illus. Send a stamped envel. for the list & prices, G. S. Vaughan, 830 Maple St., Ft. Morgan, Colo.

WANTED: No. 313 Elect. Bascule Bridge by Lionel in gd. cond. J. Field, Whitehouse, Sta., N. J.

FOR SALE: AF "S" ga. items new gd. con. Reasonable. Stamp for list. J. Tyler, 2721 S. Keeler, Chicago 23, Ill.

SALE: 2 permanently bound vol. of MODEL CRAFTSMAN from 1934 & 4 yrs. of mod. railroading mag., catalogs & handbook in excel cond. Will swap for Dooling airplane eng., McCoys, Hornets or parts & ignition coils, or as last resort will sell. A. Zickar, Box 451, De Pue, Ill.

WANTED: Australian modellers. Back copies of RAILROAD MODEL CRAFTSMAN prior April 1955. Model Trains prior Oct. 1954. Model Railroaders prior Jan. 1945. Must be clean & have covers. intact. will pay cash. A2232 CPL Raddatz E. F., Servicing Sec. R.A.A.F., Darwin NT. Aus

TRADE: Movie process kit of dev. rack, drying rack, tray, & thermometer for $9.00 worth of railroad magazines or equip. E. Gautier, 718 Upperline, N. O. La.

SWAP: 150 No. RRS Micro-Switches (Normally closed). List $1.25 each. Swap any or all, even for HO locos w/tenders, at list. S. K. Kahn, 13907 Runnymede, Van Nuys, Calif.

FOR SALE: For Lionel oper., exc. scale pass. cars with lights, int. det., diaph., etc. with Lionel trks & couplers, $10-25. Also scale frt. cars with Lion, trcks, $5 up; Lionel engs. List for stamp. W. de Funiak, 1501 15th Ave., San Francisco 22, Calif.

SALE: 2 rail DC-HO mod railway equip. engs. rolling stock & access. by amateur radio auction. Highest bidder takes it. Sale sheet mailed on request. Cinema Hobby RR Club, P. O. 520, Los Angeles 66, Calif. (Club ads must henceforth be in name of an individiual, Ed).

TRADE: Used recent Lionel 27 set, eng., cars, trk., access., excel. cond. will trade for Mantua HO Busy BO-40 switches, D. Gould, Jerusalem Rd., Eden, N. Y.

TRADE: Min. Johnson Sea Horse Elec. Outboard Motor, value $4.95 & Berkeley Cris Craft, Boat kit, value $2.95 for HO railroad equip. of like value (never used) H. Miller, 2204—53rd St., Des Moines, Iowa.

TRADE: Ives No. 3238 Loco & Pass cars, for Bassett-Lowke, Marklin O's. Also trade old tinplate for Marklin, Hornby, Trix, Rivossi, etc., HO European type locos & cars. E. B. Fargeorge, 32 Perkins St., New Haven, Conn.

SWAP: Back copies Model RR Mag's. for HO equip. Stan Old, 28110 Cole Pl., Hayward, Calif.

SWAP: Will swap HO Sharknose Diesel, 2 Pennline Diesel, for Pacific or Mikado. Robert Corson, 32 Prospect Ave., Avenel, N. J.

FOR SALE: Old Lionel train set, 2 trans., track, etc. Will sell or trade for Atlas HO trk. R. Hartley, 4152 Hellerman, Phila 35. Pa.

FOR SALE: AF Atlantic loco: AF box, hopper & cab.; 12 sec. curved & 11 sec. straight trk; metal t. eslte; trk contact; uncoupler. Very gd. cond. $15. L. Jacobson, 1662 Glenwood Rd., Brooklyn, N. Y.

FOR SALE: Com. large Lionel layout. Gargraves trk. J. Bachtel, 1200 15th St., N.W., Canton 3, Ohio.

FOR SALE: AF Chief Pass '55. Gd. cond. mount frt., gd. black diamond frt. per., '55 talking sta. gd. bagg. car, 2 650 coaches & combine, all per. M. Oseginac, c/o Gen Del, Reno, Nev.

SALE OR TRADE: Lionel diesels & steam engs. for anything in Lionel, Ives & AF standard ga. Also old catalogs will pay cash for the latter. J. McCloskeu, 2534 Aspen St., Phila 20, Pa.

SALE: Pennline Pac. & Mikado $20.00 each. Globe diesel ABA Sante Fe powered A $10.00. Mantua Big Six w/valve gear $10.00. Rivarosi Little Joe $7.70, Kempton Thom, Flyer $7.50, Kempton Work Train w/teaspoon of power $10.00, 10 assorted frt. cars $100.00 takes lot. L. Savery, 3674 Shore Pkwy., Brooklyn, N. Y.

SALE: Model RR Books & Mag. Coll. of scarce items reasonably priced. Send for list. R. Spencer, 6152½ Hazelhurst Pl., N., Hollywood, Calif. No obligation.

SALE: 1 Rndh'se HO Yardhog 0-6-0 loco; just broken in, beautiful paint job, excel. cond. 15 HO frt. cars, 2 car kits, 18 secs. Atlas Snapstrack. W. Rosenthal, 8662 Cantaloupe Ave., Panorama City, Calif.

SALE: Ives std. ga. elec. track: 16 curves, 6 straight, 1 crossover, right & left switches cond. not all shiny. Best offer takes. H. Raub, Rt. 5, Box 529-A, Bakerfield, Calif.

TRADE: Will trade S ga., 2 rail AF 4-4-2 Atlan. for an HO ga. eng. Very gd. cond. B. Hendricks, 241 NE 2nd Rd., Homestead, Fla.

SALE: $50.00 of HO trains gd. cond. V dockside, Scintilla Unipack & cars & equip. Globe A&B unit N.P. Varney NP A unit. R. Matos, 348 E. 15th St., N. Y. C., N. Y.

SWAP OR SELL: Varney cov. hopper & Mantua box car, 3 pr. Varney trucks. All cars are 1/t & c. I want Lionel or HO ga., esper. 45 deg. crossing or prewar Lionel bagg. cars. Nos. 602, 615, 2602, 2615, or what you have. T. Coop, 96 Cottage Lane, Walnut Creek, Calif.

SALE: Lionel 2531-32-34, $19.00, 2023 Twin diesel $24.00 used 2 hrs. AF HO, & "S" gg, sets, cars, locos & access., at disc., new 3c stamp for list. Deluxe Craftsman hand tool kit used once $13.00. W. Ramsey, 221E Montg Ave., Hatlboro, Pa.

FOR SALE: Lionel 3 rail & AF 2 rail equip. Want items before 1947. All letters ans. R. Koch, 5 Main St., Joliett, Pa.

TRADE: Kodak Pony 828 Camera, flash, Field case, tripod, light meter for start in HO. T. Caldwell, 2002 Idaho, Terre Haut, Ind.

SALE: I Bowser artic., new paint, valve gear inoperative. Mantua brass Pacific, poor cond. Varney diesel swtcher., 4-whl. dr. Swtch. mach. in orig. boxes, etc. list for stamp. Highest bidder takes all or part. W. Boebert, 1035 Peralta Ave., Albany, Calif.

FOR SALE: New Gilbert HO & S ga. Lionel No. 313 Bascule bridge No. 456 coal ramp. Write for list, all letters answered. D. Haustein, 94 Winans Ave., Cranford, N. J.

TRADE: Mod. airplane eng. never used. for HO equip. G. Kreinberg, 6 Kensington Ave., Massapequa 1, New York.

FOR TRADE: AF 4-4-2 gd. cond., for 0-4-0, HO 4-4-0. D. Weathersbee, 1108 Orient, San Angelo, Texas.

SELL OR SWAP: Athearn & Varney Box car kits, Varny plastic. Send stamp for list. Will swap for Silver Streak kit or loco kits. W. Miller, 2904 N. Rogers, Baltimore 7, Md.

SALE: 45 back issues of all mrr mags., 1952 to 55, Pop Plan and Pic book, want cash or model airplane motors. S. Starley, 1701 West 3rd St., Brooklyn 23, N. Y.

FOR SALE: OO ga. equip. Loco bilt up & kits, Pass frt. box gond, caboose, bilt up & kits trk switches, rails, ties, etc. Stamp for list. C. Ferris, 333 Union Pl., Akron 4, Ohio.

WANTED: Lionel OO items, Lionel mags, bound in one vol., No. 256 twin motor, elec., type, loco, RMC, for 1937, Aug. 1938, Jan., April & May, 1939, Jan. & May, 1940, Oct. & Nov. Have scale tinplate items. Ives No. 4 Wind Up loco. Al Pepe, 250—6th Ave., Brooklyn, N. Y.

WANTED: HO Model Trains for Aug., Oct., & Dec., 1952 also Feb., & Mar. 1953. J. Rybniker, 505—57th St., West New York, N. J.

FOR SALE: Lionel 027 will sell in lot or sep. Train & access. in gd. cond., price low. Stamp for list. A. E. Gasparaitis, 813 Corning Dr., Bratenahl, Ohio.

TRADE: 50 lb. No. 22 ga. solid plastic cov. wire in 15 ft. lengths, red or yellow. Trade for TT equip. of any kind. H. Hill, Box 54, Lowell, Ore.

TRADE: Marx equip. for HO equip. Have No. 999 steam loco., Santa Fe diesel, 5 cars and 30 sec. trk. Want: HO "Shiffler", 3 switches, trk., caboose, hopper car & box car. P. Schwartz, 141 Lenox Ave., Irvington 11, N. J.

SALE: "072" trk., 16 secs. $2.95, 072 remote con. switches $18.75 pair, transformer $12.95 many other, write for list. T. Herlihy, 51 Reliance St., Rochester 21, N. Y.

SALE: "OO" ga.—Lionel engs. & cars in gd. cond. One two-rail & one three-rail set. Some three-rail trk & 2 elec. switchs. G. Hanson, 2314 52nd St., Kenosha, Wisconsin.

SELL OR TRADE: Homemade sta broadcast radio & extra exten. speak with on-off vol. con. Gd. cond. would like Allied 7 control pw. pk. or HO equip. L. Austin, 101-39 114th St., S., Rich Hill, N. Y.

WANTED: Lionel "OO" ga., Box, oil, hopper car kits, Sunx tank car, Black Reading hopper, Red Box car lettered Lionel. Brown box car lettered Lionel, Red box car lettered Pennsy. State price & cond. C. Armbruster, 2650 Armand Pl., St. Louis, Mo.

SALE OR TRADE: Lionel "027" loco with smoke, whistle tnder, coal car, gondola, oil car & caboose. Excel cond. with orig. boxes worth $70.00. Type 1033 Trans. uncoupler, plasticville & Marx access. Name your price, stamp for list. G. White, Gates St., Monson, Mass.

FOR SALE: Lionel Santa Fe 3 unit diesel, C&O diesel switch, cars, track, switches. Send stamp for list. H. Zimmer, Jr., 184 Edgevale Rd., Columbus 9, Ohio.

FOR SALE: Hobbyline FM Switchr. gd. $10.00 or trade traction equip. L. Brady, 2634 Elgin, Muskogee, Okla.

TRADE: I would like to trade passes of my Ohio Term. Railroad for those of other mod. railroaders. F. Kellogg, 1919 Corning Pl., Cleveland 9, Ohio.

WANTED: Any Penn Line steamers will pay cash or trade for 4-6-2, I.M.P. 4-6-0, MDC 0-6-0 Y. Esp. want 4-6-2, 4-4-2, 2-8-0, will trade all my locos for any one of these. Send complete details. L. Cohen, 2155 Grand Concourse, New York, N. Y.

FOR SALE OR SWAP: $175 HO equip, for only $75 or will trade for TT equip. J. McCormick, 11221 W. 68th St., Terr. Shawnee, Kan.

SWAP: JC Pass. cars for Mantua Pass. cars or Sampson Cars. Also wanted to buy Bowser "Super" N.Y.C. blt. up with super detailing, E. Hughes, 74 Boylston St., Worchester 5, Mass.

FOR SALE: 2 AF trains. Santa Fe. diesel. A&B units, 2 streamline pass. cars, Comet diesel A unit. 11 frt. cars 250 watt trans., trk., access. Send stamp for list. E. Earle, Dunedin, Florida.

TRADER: The A.T.&C. Ry. would like to exchange passes of the Atchison Topeka & Central Ry. with other railroaders. R. Paul, 832 S. Clifton Ave., Park Ridge, Ill.

SALE OR TRADE: Highest bidder over $50 or trade for H.P. 2-8-2, 500' rail 45 3' sect. cork roadbed, Lionel No. 5704-6-4, Loco No. 478, Box 488, Searchlight, freight sta., cros. gate, sig. flash, whis, signboard unit, 486 gondolas, 480 tanks, M. Keyes, 1802 McPherson Blvd., Fremont, Ohio.

TRADE: Trade for steam, Tenshodo EMD, Want Mantua Reading Pacific or Atlantic, or other similar large engs. Must be in kits and must be com., and in excel. cond. J. Young, 1434 Potomac Ave., Lafayette, Ind

SALE: 2-4-2 No. 1688 steam eng., 5 frt. cars, No. 624 C&O Diesel switch, 3 pass cars. 35-40 sec. track, 20 frt. cars, 1 caboose, 1 switch, $100 value for $60 or send stamped envelope for com. list. M. De Guda, 6801 York Rd., Phila. 20, Penn.

TRADE: Want "S" ga. scale and Peare. 172 Rail 6 switches. K. Butterfield, 624 Arthur St., Plymouth, Mich.

FOR SALE: AF S ga. engs., cars & equip. Will sell as one unit only. $275.00 postpaid. List for 3c stamp. R. M. Rogers, 7525 Lilac Ct., Walled Lake, Mich.

SELL OR TRADE: for HO equip. Lionel 736 Berkshire, 2461 Lumber Car, 3469 Crane Car, 6419 Work Cab. Also have some 0-027 cont. Send for list 14 Mo. Old, Almost excel. cond, S. Reden, 16 Cynthia Lane, Plainview, N. Y.

SALE: Have Lionel 072 solid trk., 226, 238 curved trk., 1 str. cat. 1917 & 1930 to date. Want std. ga. large loco's & sets, 840 Powerhouse & 300 bridge. Enclose stamp for replies. J. Rudley, 711 N. 6th St.

TRADE: Books, "How To Build R.R. Models," & Pop. Science; Model Railways. Value $4.49 new cond. anything in T.T. T. Grady, Fairview Village, Pa.

SWAP: Duel pow. A&B Globe HO Santa Fe Diesels for steam pow. Or will sell reas., also have some Lionel std. ga. R. Box 33, Eagle Creek, Ore.

WANTED: Lionel items Nos. 616W Streamliner with cars, 252 Union Pac. with cars, 250 Hiawatha with cars, 2800 ser. cars & 98 coal bunker. State price & cond. D. Reichard, 205 W. Main St., Sturgis, Mich.

TRADE: 35mm color slides & black & white shots of steam & diesel pow. List for 3c stamp. Also swap passes on the Greenbrier Central Ry. Any & all mail to Kilforan, 315 Bell Dr., Lewisburgh, W. Va.

SALE OR TRADE: HO cab., gon., flat car & Tyco T-217 tank loco for TT loco. worth same—all worth $21.00 or over. Also trk. equip. HO for sale or trade. M. Shea, 104 W. 96th St., N. Y. 25, N. Y.

WANTED: Dorfan engs. & cars & catalogs. State price & cond. E. Gustafson, 1602 Eastlake, Seattle 2, Wash.

SALE: HO Varney Brass Mikado orig. 1949 kit. Brand new, coll. item, tender incl. Cost $50.45. Best off. takes it. Also have about $2,000.00 worth of HO locos, cars, etc. Write for list, if inter. J. O. Trinkle, 903 New Center Bldg., Detroit 2, Mich.

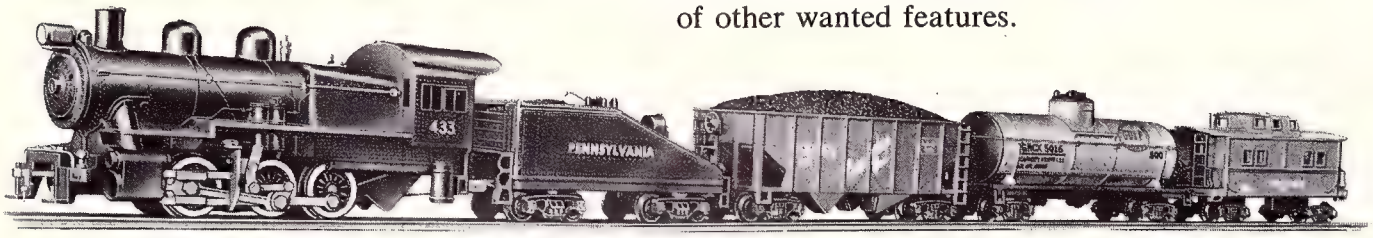
SALE: Have—"Home Study Radio Course" new for A.F. 3/16 ga. Scale or tinplate equip. & parts. M. Nappi, 5 Ollendike St., Throop 12, Pa.

WANTED: 072 Lionel solid trail trks. Louis Napoliello, 5 Warrington Pl., E. Orange, N. J.

No other HO line has these realistic Gilbert features!

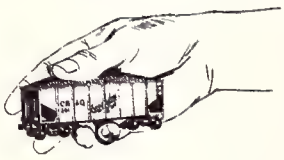
...steam locos that puff smoke!
...built-in choo-choo sound effects!
...specially designed NMRA couplers!

You *must* see these Gilbert HO trains . . . their jewel-like precision, pinpoint detail, remarkable construction. Each car and loco is a real masterpiece! Just what your road needs to make it the best. Real railroad colors and heralds throughout. There's 2-radius track (15″ and 18″) and a host of other wanted features.



This versatile 0-6-0 Pennsylvania switcher hauls three ultra-detailed freights. Has smoke and choo-choo. Just the thing for your pike. Set No. HO-320 only **$39.95**

Send for FREE Gilbert HO Catalog!



The A. C. Gilbert Company **Dept. D-11**
New Haven 6, Connecticut
Please rush FREE Gilbert HO Catalog.

Name _____

Street _____

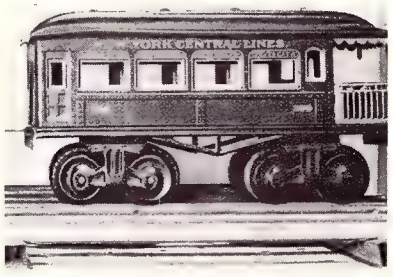
City _____ **Zone** **State** _____

clockwork by *BING*

Continued from p **37**

Aside from the under frame there were two distinct Bing details that labeled these German-made tenders: one was a fixed coal chute gate found on the front end of the body, and the other was the presence of an embossed section of tender floor to simulate a slip proof type of iron floor plate. In the matter of factory finishing the tenders came in a smooth black color to match the locomotive. The neat stripe effect found on the body sides was made up of white and red colors. No bright silver-like metal was to be seen anywhere.

Bing passenger cars were numbered and were colorfully lithographed in green, with tan roofs and black underframes and trucks. Equipped with the ever popular hook couplers, they could be used with any American-made cars. The eye-arresting lithographed finish of these cars placed them in a class by themselves. Their dull black wheels formed a striking contrast to the bright tinplate silver wheels of our own Lionel, American Flyer and Ives car wheels. The detailed coiled spring embossed directly on each of the one piece car trucks gave the trucks an unusually high appearance.



Another interesting feature about the Bing trucks was the rather unique mounting of the axles. The axles were not mounted in simple round holes punched in the trucks but instead they were mounted in rounded slots so that the axles were not rigid and were slightly movable in an up and down direction. This feature was to be found only on the eight wheel cars.

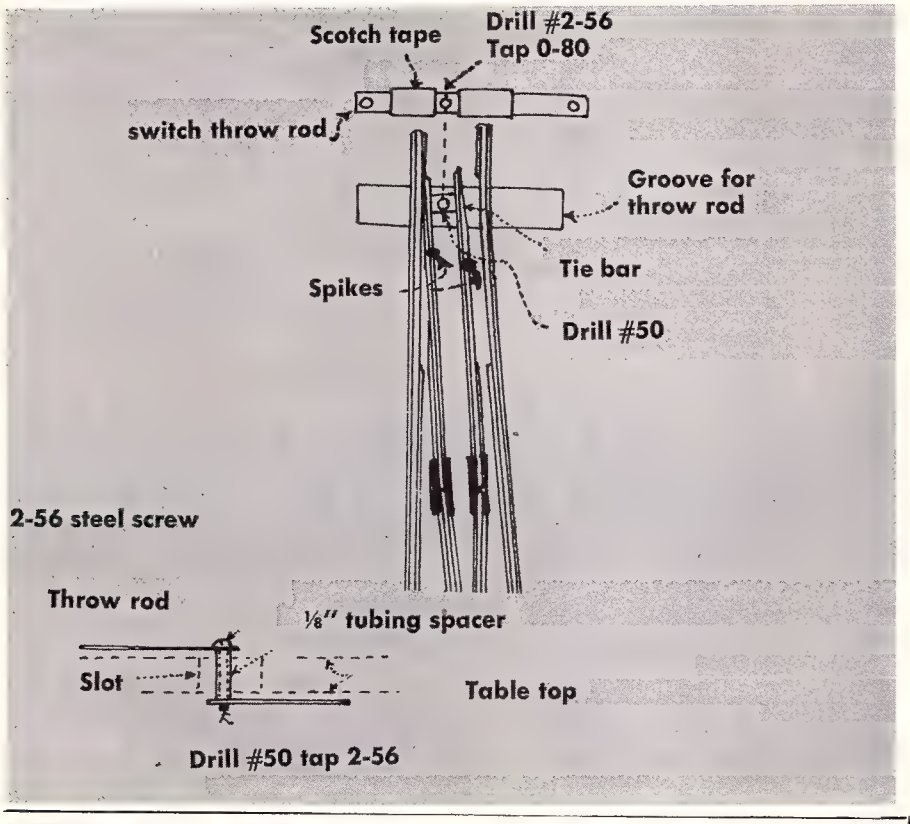
The early Bing cars had imitation scribed wood sides while the later models had imitation steel sides with much rivet detail, all made possible by expert lithography. While all of the Bing eight wheel passenger cars were of the same 6½" length, the observation car was considered the attraction, not so much from the standpoint of size but rather of fine detail.

This car had a realistic railing on its observation platform, a colorful awning trim hanging from its observation platform roof and a large red and white nameplate "Twentieth Century" firmly afixed to the end platform railing. Every window of the car was neatly stamped out in the manufacturing process with the exception of the window found on the platform facing the rear of the car. For some reason this particular window was entirely lithographed.

The Bing mechanical train sets were always packed and sold in colorful pasteboard boxes with separate compartments for the engine, tender, cars and track. Explicit directions for the operation of the locomotives were enclosed with every set. Carefully printed in English, these well illustrated instructions were undoubtedly good-will builders for the German firm. These pasteboard boxes were never of the heavy carton type used by American toy train manufacturers, but were of a lighter weight that seemed to harmonize with the bulk-free locomotives and light-weight cars.

Attaching Switch Throw Rods

by John Kemp



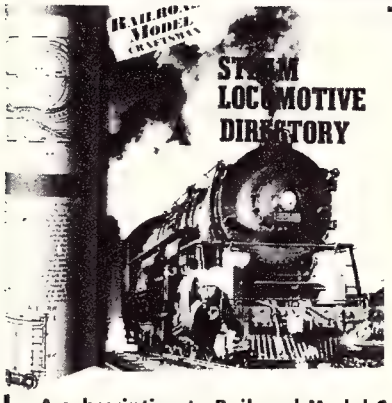
WHETHER your switches be home-made or store-bought, you will need to attach or from time to time re-attach a throw-rod to move the points from one position to the other. On switches you build yourself, it is always required. On commercial switches sometimes a new rod is required because the hole pulls out of the end of the original one. In any event there is one little secret weapon which will make this throw-rod attaching fairly easy: it is an engine crank-pin screw. It doesn't much matter what make because they all have 0-80 threads and a shoulder. The hex-head ones should immediately be slotted with a jewelers' saw for convenience in installation.

Fig. 1 shows a typical turnout. After you file your points and get them just right, spike them over in one position, pinching a tie-rod between the bases of the points. This is a piece of ⅛" x 1/32" brass which has been drilled to clear a crank-pin screw shoulder— No. 50 drill in most cases—then cut to length to give about the right throw to the points. To hold this in place during the soldering, block the tie-rod up by putting some old fibre ties in the groove usually cut in the baseboard to receive the throw rod. When spiked over solidly, dab on soldering paste, and solder the tie-rod to the bases of both switch points. Unspike and move back and forth freely.

The throw-rod itself is also shown in fig. 1, another piece of ⅛" x 1/32" brass which has been drilled No. 56 and tapped 0-80 near its center, with a larger hole (No. 50 is often suitable) at one or both ends to take the actuating rod of your switch machine or manual control. If the throw-rod passes directly under the running rails, then it must be insulated from them by wrapping on each side of the central tapped hole with scotch tape. Run the screw into the tapped hole and cut or file off excess screw threads protruding below. Then slip throw-rod under the tie-rod, in the groove, and run the screw into the hole. It will make an easy pivot.

If your commercial switch has pulled a hole where you need it and the throw rod is useless, remove the old one by grinding or filing off the rivet, dropping out the rivet and sliding out the old throw rod. The replacement should have the same shape as the old, usually cranked up in the center. If this is not done, then try using a crank-pin screw with a longer shoulder, i.e. a main crank pin screw.

A similar method may be used to get the throw-rod from on top to underneath the platform. Make a slot in the line of movement, drill top throw-rod to clear a 2-56 screw, the bottom extension thereof to be tapped 2-56, and then slip such a screw through the slot, using a piece of ⅛" o.d. tubing as a spacer. It is better to use two such screws in a row to prevent the throw-rod from bending. Such a duck-under may be used to get the throw-rod under intervening tracks so you can use a top-mounted switch machine.



Assure Yourself A Full Year of Reading & Building Pleasure

And Save Money in the Bargain!

A subscription to Railroad Model Craftsman is your ticket to a full year of reading and building pleasure. Each issue is packed with the latest model building hints, ideas to gladden the heart of any model railroad enthusiast. You'll find a wide assortment of do-it-yourself projects—locomotives, cars, buildings, scenic development—plus many, many other timely hints on the construction and operation of your model railroad. By subscribing for one year you'll get more than 800 fact-filled pages of model railroad know-how. Make sure you send your order today.

RAILROAD MODEL CRAFTSMAN
Ramsey 9, New Jersey

If you don't want to mutilate your magazine, send your order and remittance in a letter.

Here's my order for a subscription to Railroad Model Crafesman. Enclosed is ☐ $12.00 for three years; ☐ $9.00 for two years; ☐ $5.00 for one year. This is a new subscription ☐; this is a renewal ☐. Send copies of the magazine each month as it is issued to:

Name.....

Address.....

City and State.....

Please add 50c per year if outside the U.S.A. or Canada

Localized Dealer Service

ADVERTISING RATES

Display: $21—6 months, $35—12 months

Two Line Bold Face: $6—6 months, $10—12 months

ALABAMA

Birmingham; Astons Hobby Shop
Birmingham; Morgan Model, 2856 Norwood
Florence; Crump Camera, 117 N Seminary
Foley; Foley School Store

ARIZONA

Morristown; Arizona Central RR Shop
Phoenix; Ariz. Eastern RR Shop, 2002 N 23

Phoenix—Hamp's Hobby House
1147 E. McDowell Rd. AM 4-0332

Phoenix—Webster's Hobby Shop
521 E. Camelback Rd. AM 6-5343

Phoenix; Hobby Haven, 1614 E Thomas Rd.
Phoenix; Western Ariz. Sales, 8841 N Central
Prescott; Roger's Hobby, 329 N Virginia
Safford; Ariz. Hobby Inds., 616 5th Ave.

TUCSON

HO & O Scale-tinplate kits
Lionel sets & acces. HO parts a
Specialty. Open Mon. & Fri. eves.

TUCSON TRAIN SHOP

4352 E. Speedway Ph. 6-2565

Tucson; Townsend's, 2751 N Campbell Ave.
Yuma; HobbyCraft, 40 W. 2nd St.

ARKANSAS

Jonesboro; Stuck Paint Store, 216 Union
Little Rock; 555 Inc., PO Box 1901
Little Rock; Marshall Store, 314 Louisiana
Pine Bluff; Dunning Hobby, 1104 Walnut St.
Stuttgart; Leland's, 420 S. Main

CALIFORNIA

Alameda; Pacific Miniature, Trains, 1718 Bay
Alameda; Alameda Craft & Hobby, 1315 Park
Alameda; Habe's Hobby Shop, 1416 Park St.
Alhambra; Wheel & Hobby, 14 S 3rd
Alhambra; Fergies, 19 S. Garfield Ave.
Arcadia; Wheel & Hobby, 160 E Huntington
Arcadia; Jimmie's, 54 La Porte
Auburn; Hobby Shop, 1124 High St.
Bakersfield; Stamp & Coin, 1414 20th
Bakersfield; Stewart's, 900 21st
Baldwin Pk.; Carr's, 4110 N. Maine Ave.
Barstow; The Hobby Shop, 402 E Main
Barstow; Georgina's, 427 E Main
Bell; Robbie's, 7613 Atlantic Ave.
Bellflower; Joe's Hobby, 17815 Clark Ave.
Bellflower; Kinkade's, 16548 Bellflower Blvd
Bellflower; Verdun's, 16772 E. Bellflower
Berkeley; Berts Hobby Shop, 1725 University
Berkeley; Hobby House, 1751 Solano Ave.
Beverly Hills; Avocation, 313½ S Robertson
Beverly Hills; Foster's, 9895 Santa Monica
Berkeley; Kenn & Lee's, 1751 Solano
Brawley; Ray Early, 116 N Plaza
Burbank; House of Hob., 1825 W. Verdugo
Burbank; Hobby Bobby's, 3518 W. Victory

Burbank—Hobby Junction
834 Hollywood Way TH 8-1267

Burbank; Hobby Sup., 331 S San Fernando Blvd
Burlingame; Hobby Shop, 1208 Burlingame
Carmel; Craft & Hobbies, Ocean Avenue
Chico; Hobby Crafts, First & Mangrove
Chico; Tops Hobby, 325 Broadway
Compton; Smokeys, 1305 E. Compton Blvd.
Compton; Tuckers Hobby, 329 S. Santa Fe
Coronado; Hobby & Sptg., 1009½ C Ave.
Daly City; Hobby Shop, 6674 Mission
Culver City; Pico Model, 5407 S. Sepulveda

Culver City—J & M Hobby Supply
10770 Washington Blvd. VE 8-3815

Daly City; Robbies Hobbies, 6073 Mission
Dingsburg; Olson Bros., PO Box 276
El Cajon; Mike's, 564 El Cajon Blvd.
Downey; Holman's, 11029 S. Downey

EL MONTE

EL MONTE MODEL SUPPLY

Open Evenings 7-9 except Fri. & Sun.

11505 N. Pacific Ave. FO 8-9527

Fresno; Belmont App., 5047 Belmon Ave.
Fresno; Eastman,1449 Fulton St.
Fresno; Fresno Hobby, 2038 Mariposa
Fresno; Hobby Center, 1233 Blackstone Ave.
Fresno; Maruko Cyclery, 1153 F St.
Fullerton; Baker's; 119 E Commonwealth
Fullerton; Roberts Spt. Gds., 103 S. Spadra
Garberville; Unique Log House

Glendale—Finley's Hobby Craft
340 N. Brand CI 3-9332

GLENDALE

Specializing in Model Railroad Equipment and Supplies
Hours 9 A.M. to 6 P.M. Tuesday—Sunday

THE BRASS HAT HOBBY SHOP

1105 N. Pacific Ave. Glendale 2

Glendale; Hobbystop, 3354 Glendale
Glendale; Rossmoyne, 825 N. Glendale Ave.
Grass Valley; Hobby House, Partridge Hotel
Hanford; Davidson's, 219 Lacey Blvd
Hawthorne; Hobby Shop, 110 Plaza Square
Hawthorne; Jack's, 214 N. Hawthorne Blvd

HOLLYWOOD

HOLLYWOOD HOBBY & ELECTRIC SHOP

Repairs While You Wait
Hours: 9:00 A.M. to 8:00 P.M.
"Buy — Sell — Trade — Repair"

1522 N. Cahuenga Hillside 5070

Hollywood; Play Mart, 5516 Santa Monica
Hollywood; Reginald Denny 5751 Hollywood
Huntington Park; Hobby World, 7119 Pacific
Inglewood; Coles, 109 S. LaBrea
Inglewood; Hobby Post, 11227 Prairie

Inglewood—Hobbyland
1205 North La Brea ORegon 8-3611

La Jolla; Modelcrafts, 10 Arcade Bldg
Lawndale; Model Rail Depot, 16324 Hawthorne
Long Beach; Barnes, 5358 E. 2nd St.
Long Beach; Bob's, 2120 East 4th St.
Long Beach; Brownies Hobby, 2023 Pacific
Long Beach; Jiggs Shop, 938 South St.
Long Beach; Linde's Hdwe, 2069 Santa Fe
Long Beach; Swaneys Hobby, 527 E. 55th
Long Beach; Lakewood Hobby, 4420 Village Rd.
Long Beach; Bill's Depot, 2754 E. Broadway
Long Beach; Ray's Hobby, 1222 American

LONG BEACH

Complete Stock of Model Supplies
Railroads — Airplanes — Ships

RAY'S HOBBY MODEL SUPPLIES

1222 American Ave. Long Beach 13

LOS ANGELES

Specializing in HO
Weekdays to 9:00 P.M.

A & P HOBBY CENTER

5701½ E. Beverly Blvd. UN 1-7523

LOS ANGELES

Model—Hobby—Craft—Magic Supplies
"Simply Everything"
Daily—Sundays 9 A.M.—9 P.M.

"COLONEL BOB'S"

3709 W. Pico at 4th Ave. L.A. 6

Los Angeles; Allied Models, 10938 W. Pico
Los Angeles; Al's Hobby, 5239 York Blvd.
Los Angeles; Carl's Model Supply House,
Los Angeles; Fazio Hobby Shop, 827 S. La Brea
Los Angeles; Hobbystop, 3354 Glendale
Los Angeles; Natick Shop, 209 W. 4 St.

Los Angeles 43—Crescent Model and Camera Shop, 5348 Crenshaw Blvd.

Los Angeles; Harry's, 7204 S. Western Ave.
Los Angeles; Hobby Shop, 3354 Glendale Blvd
Los Angeles; Hyde Park Co., 3418 W. 74th
Los Angeles; Marty's, 4816 W. Adams Blvd
Los Angeles; Modelcraft, 8945 S. Western
Los Angeles; Michels, 2872 Rowena
Los Angeles; Robert's, 8306 Lincoln Blvd.
Los Angeles; Jay Simmons, 4702 Whittier
Los Angeles; Viking Hobby, 9409 S. Hoover
Los Angeles; Stans, 2714 N. Eastern

LOS ANGELES

Railroads (all gauges)
Machine Work Railroad Repair Service

TROXEL BROS. MODELS

202 S. Western Ave. Los Angeles 4

Los Gatos; Wildcat Sport Shop, 27 E. Main
Los Palos; Motor Co., Calif. & Blossom
Mar Vista; Cinema Hobby, P.O. Box 520
Mill Valley; Herb's, 7 Throckmorton

Modesto—Hay's Hobby House
908 J. St. Phone 2-9340

Modesto; Hobbycraft, 310 H St.
Modesto; Trains & Planes, 12 McHenry Village

Monrovia—The Model Mart
112 E. Lemon Ave. Elliott 8-7279

MONTROSE

Good Used Lionel
Customer Operated Layouts
Custom Built Railroads
American and Marklin HO

KNAPP'S
TRAINS & HOBBIES

2525 Honolulu Ave. CHurchill 9-7226

Montebello; Victory Shop, 1411 Whittier
Napa; Carl's Hobby Shop, 2532 Jefferson
Napa; Ray's Shop, 712 First St.
N. Sacramento; Hobby Hangar, 2307 Rio Linda
N. Hollywood; Accu-Rite Co., 7528 Lankershim
North Hollywood; Gen. Hobby, 5238 Laurel C
Norwalk; U-Make-It, 11048 Rosecrans
Norwalk; Speeds, 11469 E. Cresson
Oakland; Dake's Model Shop, 1420 46th Ave.
Oakland; Jerry's Hobby Shop, 1650 MacArthur
Oakland; Jack Collier's, 3669 Grand Ave.
Oakland; Lee's Train Serv., 3980 Piedmont
Oakland; Model Craft Shop, 4336 Broadway

Oakland—Root's Hobby Hub
6036 Telegraph Ave. HU 3-4543

Oakland; Russcraft Hobbies, 6015 Foothill
Ontario; W. Woodward, 331 E. H St.
Oroville; Hickman's, 1870 Bridge St.
Pacific Palisades; Hobby, 874 Via de la Paz
Pacoima; Pacoima Hobby, 13279 Van Nuys
Palo Alto; Engine House, 3777 El Camino
Palo Alto; Hobby House, 228 Forest Ave.

Palo Alto—Miniature Travels
3345 El Camino Real DAvenport 3-1514

Pasadena—Ace Model Shop
1655 E. Colorado St. Sy 3-6061

Pasadena; Whistele Stop, 3745 E. Colorado
Pasadena; Garstange's, 87 E Colorado
Pasadena; Hobby World, 200 E. Colorado
Pasadena; Spare-time Hobs, 3740 E. Colo.
Pasadena; Whistle Stop, 3745 E. Colorado
Pasadena; Your Model Shop, 12 N. Santa Anita
Pomona; Norton's Hobby Shop, 1016 E. 5th
Redondo Beach; Handicrafters, 4405 Redondo
Reseda; Reseda Hobby, 7035½ Reseda Blvd.
Redwood City; Superior Mods., 820 Sweeney
Richmond; Claev's, 1418 MacDonald Ave.
Riverside; Markley's Hobby, 3516 9th St.
Riverside; Model & Supply, 3777 9th St.
Sacramento; Norm's Hobby, 2914 35th St.
Sacramento; Hobby House, 2610 Marconi Ave.
Sacramento; Hobbycrafts, 1616 Jay St.

Sacramento—Hobbycrafts F. J. Locker
1616 Jay Street GI 2-1293

Samoa; Redwood Hobby Shop. 16 Murphy Ave.

San Anselmo; Marin Crafts, 800 San Ans.
San Bernardino; Heywood's, 472 Highland
San Bernardino; Joy Hobby Shop, 1663 E St.
San Bernardino; Quality Tested, 1065 3rd

San Carlos—J & J Hobby House
1480 Laurel St. LYtell 3-5278

San Carlos; J & J, 1480 Laurel St.

SAN DIEGO

Marklin Headquarters—Official Service Depot
American Flyer Authorized Service Station
Lionel Trains Repaired
Planes—Boats—Cars

GLENN'S TRAIN HOBBY

1125 G St. BE 3-5395

San Diego; Atlas Hobby Prod. 2323 Madison
San Diego; Frank—The Trainman, 4310 Park
San Diego; Hobby Stop, 2939 El Cajon Blvd.
San Diego; W. A. Kingston, 3819 6th Ave.
San Diego; Hillcrest, 3921 Fifth Ave.
San Diego; N. Park Hobby Shop, 3944 30th
San Diego; Railway Hobby, 4226 University
San Diego; Whistle Stop, 3819 6th Ave.
San Dimas; G. F. Harbin, 209 W. Bonita Ave.
San Fernando; Win's, 142 Hubbard Ave.
San Francisco; Cal. Modl., 525 Irving St.
San Francisco; Emp. Hobby Shop, 835 Market
San Francisco; Franciscan Hob., 1803 Olean
San Francisco; Hobby Center, 5748 Geary
San Francisco; Hobby & Craft, Box 475
San Francisco; Jim's Hobby Shop, 4141 18th
San Francisco; Macy's, Stockton at O'Farrel
San Francisco; Noriega, 3917 Noriega St.
San Francisco; Sam's Hobby, 245 Clement St.
San Gabriel; Hobby Shop, 555 W. Las Tunas
San Jose; Ange's, 1371 Lincoln Ave.
San Jose; Glenn's, 1362 Lincoln Ave.
San Jose; Huston's, 293 S. 1st St.
San Jose; Tomasello's, 1198 Vine St.
San Lorenzo; Model Rail, 15874 Hesperian

Santa Ana—Santa Ana Hobby Shop
1111 S. Main St. KImberly 2-6106

Santa Ana; Frank's Hobbies, 204 N. Main
Santa Barbara; Atkins, 16 W. Anapamu
Santa Barbara; Baumgarten's, 423 Chapala St.
Santa Catalina Is.; Fun Shop, Catalina Ave.
Santa Clara; The Sportster, 1165 Franklin
Santa Cruz; The Hobby Center, 110 Soquel

Santa Monica—Aero Hobbies
1319 Santa Monica Blvd. EX 5-0128

Santa Monica; Aero Hobbies, 1324 Montana
Santa Monica; Evett's, 2024 Pico Blvd
San Pedro; Rays Hobby Shop, 408 W. 6th St.
Santa Rosa; Sports Shop, 536 Mendocino
Santa Rosa; Toy & Model, 636 Fourth St.
Sherman Oaks; Capt. Eddie's, 15010 Ventura
Sherman Oaks; Flying Tiger, 14072 Ventura
South Gate; W. C. Model Shop, 9951 Calif. St.
Stockton; Hobby-Craft Sop, 637 E. Main
Stockton; Toy Box, 3220 Pacific Ave.
Studio City; Valley Model R.R., 12041 Ventura
Tarzana; Valley Hobby, 18629 Ventura Bld.
Torrance; Mor's, 1307 Post Ave.
Torrance; Hobby Shop, 129 El Prado
Vallejo; Stillings Hobby, 940 Tenn. St.
Van Nuys; Templen's Hobby, 14552 Friar St.
Van Nuys; Caboose Hobby, 8316 Woodman
Venice; D&A Hobbi-Center, 101 Dudley
Ventura; Jones' Hob-Bee Hive, 2090 E. Main
Visalia; Toy Shop, 115 N. Encina
Walnut Creek; Tots 'n Teens, 1414 Main St.
W. Covina; Hobby Center, 117 S. Glendo Ave.
W. Los Angeles; Janoh's, 1640½ San Vicente
Whittier; Radio Den, 223 W. Philadelphia St.
Yuba City; Al's Bike & Hobby, 648 Plumas St.

COLORADO

Alamosa; Stillman-Ready, 712 Main St.
Arvada; Hobby Shop, 5777 Wadsworth Ave.
Aurora; Your Hobby, 1455 Florence St.
Colorado Springs; Earludick Serv., 113 N. Nev.
Colorado Spgs; Lemle's Hobbycraft, 2410 N. Nev

Colorado Springs—Lemle's Roundhouse
2410 No. Nevada (Rear) ME 2-1969

Denver—Denver Hobby Shop
1524 Colorado Blvd. EA 2009

Denver—The Hobby Dep't. Store
1721 Stout CH 1059

Denver—The Hobby House
610 15th St. TAbor 1742

Denver; Downtown Hobbies, 1511 Charupa
Denver; Dave Bonino, 24 E. 1st
Denver; Dire's, 1104-18th
Denver; Model Hobby, 3018 W. 38th Ave.
Denver; Fisher-Denver Co., Coifax at York
Denver; Hobby Hub, 48 S. Broadway
Denver; Jerry's, 1657 Welton St.
Denver; C. E. Smith, 438 Osceola St.

Denver—Model Hobby Shop
3018 W. 38th Ave. GRand 8121

Denver; Tom Thumb Hobby, 7020 E. Colfax
Denver; Calvin C. Wood, 818 15th St.
Fort Collins; Linder's, 114 Trimble Court
Grand Junction, Peyton's, 512 Main
Greeley; Don's Hobby Haven, 723 A 7th St.
Julesburg; Hobby Mart, Box 345
Pueblo; Junior Aircraft, 605 N. Main
Yuma; Home & Auto Appl.

CONNECTICUT

Ansonia; Mack's, 482 Main St.
Branford; Firestone Shop, 258 Main St.

Bristol—Hobby Center
92 N. Main St. Phone: Ludlow 3-7273

BRIDGEPORT

Bridgeport's Only Authorized
Lionel & Amer. Flyer Service
Sales & Service for HO, O & S Gauge
Model Railroad Supplied
Connecticuts Exclusive Train Center

TRAIN EXCHANGE CENTER, INC.

631 Fairfield Ave. FO 8-2364

Bridgeport; Blaner's Serv., 1224 Pembroke St
Bridgeport 3, Irv Yurdin's, 313 Fairfield
Danbury; Hobby House, 262 Main St.
Devon; R & D Bike Shop, 128 Bridgeport Ave.
Essex; Lords, 31 Main St.
Fairfield; The Carousel, 1435 Post Rd.
Fairfield; Gamble's, 1496 Post Rd.
Gaylordsville; D. C. Whitney

Hartford 12—Herb's Hobbies
637 Albany Ave. CH 7-2284

Hartford—Hobby Center
218 Pearl St. Phone 6-1482

Hartford; Model Bldrs, 81 Lawrence St.
Manchester; Hobby Shoppe, 6 Griswold
Milford; Michaels, 4 Factory Lane

Middetown—Amato's Hobby Center
600 Main Street Phone DIA 6-7083

Milford; Michaels, 4 Factory Lane
New Britain; The Beacon, 220 Main
New Britain; Tanguay's, 11 Franklin Sq.
New Canaan; Handicraft's, 59 Elm St.
New Haven; Hulls Hobbies, 1203 Chapel
New London; Jos. L. Raub, 26 Bank St.
Newtown; House of Flowers & Crafts
Portland; Twin Train Hobby, 216 Main
South Norwalk; Hobbyland, 57 N. Main St.
Putnam; Ken's, 7 Canal St.
S. Norwalk; Gorham Co., 126 Washington

SOUTH NORWALK

Authorized Lionel & AF Service —
Model Railroad Supplies — Complete
Shop for Trains, Planes, Boats, etc.

"HOBBYLAND"

57 N. Main St. Tel.: Temple 8-6833

Stamford; Hobbycraits, 157 Main St.
Stamford; Hobby Center, 497 Main St.

Torrington—The Model Railroad Shop
35 Water St. Phone 7001

Wallingford—Colony Hobby Shop
846 S. Colony Rd. Rt. 5 Tel. 9-2433

Wallingford; York Hdwe Co., 32 Center St.
West Hartford; Harry's, 15 S. Main St.
West Haven; George's, 625 Campbell Ave.
Willimantic; Joe's Key Way, 21 Temple St.

DELAWARE

Clayton; C & S Model Shop, Box 101
Milford; The Pierce Hdwe Co.
Newark; Hobby Shop, 40 E. Main
Seaford; Sussex Hdwe, PO 218 High & Pearls
Wilmington; Charlie's Shop, 812 W. 6th St.
Wilmington; Hobby Center, 945 Tatnall St.

DISTRICT OF COLUMBIA

Corrs, 812 9th N. W.
Gilbert, 1610 K St. N. W.
The Handicraft Shop, 1401 25th St. S. E.
Haines; 1210 Chittenden St., N.W.
Hobby Headquarters, 2344 Iverson St.
Hobby Shop, 3109 Nichols Ave., S. E.
Hobbies, 2240 Penna S. E.
Jay Dee Model Supplies, 4805 Georgia Ave.,
Mt. Vernon Cycle & Sport, 421 9th St. N. W.
Keenes, 907 G Pl. N. W.
Superior Lock & Electric Co., 1410 L St. N.W.

FLORIDA

Clearwater; Hobby, 425 Laura
Clearwater; Hobby House, 23 N. Ft. Harr.
Coral Gables; Model, 219 Aragon
Daytona B.; Toyland, 113 Orange
Fort George; Camp Model, 1208 Dunn
Ft. Lauderdale; Model, 143 E. Las Olas
Fort Pierce; Frink Co., 413 Avenue A
Gainesville; Brannans Model,
Jacksonville; Hobby, 25 Duval
Jacksonville; Whipple, 1307 Main

Jacksonville—King St. Bicycle and Hobby
1249 King St. Phone 7-5855 or 8-4912

Lakeland; Sport Store, 106 E. Main
Lake Worth; F. Kerr, 609 Lake
Miami; Orange Blossom, 1896 N. W. 36th
Miami; Jahn, 300 E. Flagler St.
Miami; Hobby, 1520 S. W. 8th St.

Miami—Bill's Hobby Shop
9028 N.W. 22nd Ave.

Miami—The Hobby Center, Inc.
3621 S.W. 8th St. Phone 4-9819

Ojus; Roonoe Studio
Orlando; Southland Hobby, 217 N. Main St.
Orlando; Haley's, 214 N. Orange
Pensacola; Hobby Shop, E. Wright St.
Sarasota; Model Hobby, 1614 Main St.
St. Petersburg; Sunshine Hobby, 208 Central
Tampa; Edwards', 102 E. Cass St.
Tampa; Jimmy's, 3106 E. Osborne
Tampa; Chan's Hobby, 4111 Henderson Blvd.
Tampa; Chester Holly, 3641 S. Dale Mabry

TAMPA

EXCLUSIVELY RAILROADS
Largest Selection in the South
Open till 8:00 P.M.

CHESTER HOLLEY

3641 S. Dale Mabry Phone: 617202

Warrington; Barracas, 1620 Barracas Ave.

West Palm Beach—Southland Cycle
3628-30 S. Dixie Hwy. Phone 5208

Winter Pk.; McCord's, 776 So. Penn

GEORGIA

Albany; S. E. Hobby, 221 N. Jackson
Albany; R. Gunnels, 122 Court Ave.
Atlanta; Buckhead, 3141 Roswell Rd.
Atlanta; Hobby, 604 Peachtree
Atlanta; Isengor Camera Exchange
Augusta; Bowen, 905 Broad St.
Augusta; Hardware, 1128 Broad
Augusta; Home Folk's, 754 Broad
Columbus; Bentley's, 1305 Broadway
Decatur; Hobby, 315 Church St.
Savannah; Hobby, 254 Bull St.
Savannah; Van's of Savannah, Bx. 334
Valdosta; D. Dennis, 534 S. Patterson

IDAHO

Boise; Ralph's Train Shop, 612 Stanle ySt.
Boise; Model RR, 1211 N. 16th St.
Coeur D' Alene; Hobby, 420 Sherman
Idaho Falls; Lofgren's, 840 Pk. Ave.
Kellogg; Owen's, 4 So. Division
Moscow; Cycle, 318 W. Third
Nampa; Miniature, 615 8th Ave. So.
Salmon; Moser's Inc., Box 87

ILLINOIS

Alodo; Stuts Drug Store
Alton; Bills Hobby, 1636 Washington Ave.
Aurora; Galloway-Betts, 7 Fox Prom
Aurora; Tom's, 47 S. La Salle St.
Barrington; Darkens, Rough St.
Beardstown; Campus, 15th & State Sts.
Belleville; Harter's, 1011 W. Main
Berwyn; Goldeck's, 2615 So. Ridgeland
Berwyn; Windsor, 6900 Windsor
Bloomington; Harry's, 102 E. Market
Bloomington; W. B. Read, 210 N. Center
Blue Island; Smith's, 12661 Western
Chicago; A & A Hobby, 6944 Higgins Ave.
Chicago; A B C, 3359 No. Southport

CHICAGO

Lionel train experts. Free catalog.
Free mailing on all purchases
A-ABART ELECTRIC CO.
1259 N. Ashland Ave.
Phone: ARmitage 6-6383

Chicago; Acme, 7626 So. Cottage Grove
Chicago; Acme, 2431 E. 79th
Chicago; A Hobby, 5345 No. Lincoln
Chicago; Aerocrafters, 2905 W. Cermak Rd.
Chicago; Airplane, 318 W.29 St.
Chicago; Airport, 6342 So. Central
Chicago; Allen's, 1857 E. 75th
Chicago; All Ages Hobby, 3409 Lawrence
Chicago; Arcy, 1503 W. Morse

CHICAGO

Model train's Hobby Center for
Model trains—Ships—Planes—Supplies
Chicago's GREATEST Stock
ALL NATION HOBBY SHOP
182 N. LaSalle St. Chicago 1

Chicago; Art's, 816 E. 75th St
Chicago; B & B Rail, 931 W. Leland
Chicago; B & E, 3531-33 N. Western
Chicago; B & K Radio, 1335 No. Ashland
Chicago; Bend, 5519 N. Lincoln
Chicago; Ben's Hobby, 134 N. Dearborn

CHICAGO

"Everything for the Hobbyist
and Sportsman"
Lionel and American Flyer
Repairing
BEND HOBBY & SPORTS SHOP
5519 N. Lincoln SUnnyside 4-9140

Chicago; Bently Hobby, 1834 Belmont Ave.
Chicago; Ben's Midget, 3818 No. Ashland
Chicago; Brewer's, 7650 Irving Pk.
Chicago; Bridgeport, 937 W. 31st
Chicago; Burgess, 182 No. Wabash
Chicago; Bill's, 3817 W. Fullerton
Chicago; Brittania, 942 W. 63rd St.
Chicago; Creative Toys, 3632 Fullerton
Chicago; Carl-Sons, 1627 Damen
Chicago; Chicago Hobb., 6411 N. Western
Chicago; Curts, 2956 N. Clark
Chicago; Dade's, 11121 So. Kedzie
Chicago; David Cycle, 3235 W. 63rd
Chicago; Doc's Hobby, 1905 W. Monterey
Chicago; Ed's Hobby, 404 E. 79th
Chicago; Edgar, 1217 W. Foster
Chicago; Edison Pk., 6678 Northwest
Chicago; E & G Model, 4121 W. 26th
Chicago; Flesher's, 1445 W. 103rd St.
Chicago; Galen, 3234 Elston Avenue
Chicago; George's, 1232 W. Grace St.
Chicago; G & H Hobby, 5823 Irving Pk.
Chicago; Gliders, 1037 W. 79th St.
Chicago; Goren, 8850 So. Comml
Chicago; Gross, 6767 Stony Island
Chicago; Hal's Hobbycraft, 5941 North Ave.
Chicago; Hobby Haven, 4252 N. Central Ave
Chicago; Hobbies, 1755 W. 95th
Chicago; Hobby, 5252 No. Clark
Chicago; Hobby, 3234 S. Pulaski
Chicago; Hobby Models, 6411 N. Western
Chicago; Hobby, 3949 No. Sheridan
Chicago; Hobby, 3300 W. North Ave.

CHICAGO

Model Railroad Specialist
Transportation in Miniature
We Accept Mail Orders
HOLM'S HOBBY HOUSE, INC.
323A W. Madison St. FR 2-4343

Chicago; Hob-Craft, 7951 Niles Ave.
Chicago; House of Trains, 3850 So. Cottage
Chicago; Immerger, 5545 N. Lincoln
Chicago; Jay Gee, 5403 So. Winchester
Chicago; Jerry's, 4322 S. Richmond St.
Chicago; Jo's, 3551 W. Armitage
Chicago; Kale, 2250 No. Milwaukee
Chicago; Karl's, 2049 No. Milwaukee
Chicago; Larrys, 909 School St.
Chicago; Larson, 820 So. Tripp
Chicago; Leader, 6615 S. Ashland Ave.
Chicago; Leonard, 4735 Milwaukee
Chicago; Lewis, 6713 N. Clark
Chicago; Lincoln, 3328 No. Clark
Chicago; Linka, 3918 W. 26 St.
Chicago; Lundberg's, 5914 W. North
Chicago; M & G, 3445 N. Pulaski Rd.
Chicago; Mains, 6401 No. Caldwell
Chicago; Malmer, 5615 N. Glenwood

Chicago—Mandel Brothers
State St. STate 2-1500

Chicago; Manor Hobby, 5619 W. North
Chicago; Marshall, 1113 No. State
Chicago; Mid-States, 1905 So. Mich.
Chicago; Midway, 4217 W. 29th
Chicago; Midwest, 6747½ So. Halstead
Chicago; Milford, 3335 No. Pulaski
Chicago; Miller's, 5716½ W. Lawrence
Chicago; Minky's, 3332 W. Roosevelt
Chicago; Model, 1331 E. 55th St.
Chicago; Museum, 57th Lake Michigan
Chicago; National, 2615 N. Greenview
Chicago; Northwest, 5037 Irving Pk.
Chicago; Oh-Gee, 8107 S. Halsted
Chicago; Pilot, 5450 W. Belmont
Chicago; Purdy, 2008 No. Western
Chicago; Ray's, 1042 W. 103rd
Chicago; Servu-rite, 3945 W. Irving Pk.
Chicago; Trost, 3111 W. 63rd St.
Chicago; Sheramm's, 2601 No. Milwaukee

CHICAGO

Available Items for ALL Modelers
Trains—Planes—Boats
SIMONSEN MODEL SUPPLIES
3054 N. Greenview EA 7-1565

Chicago; Towne, 3249 W. 63rd
Chicago; Toy, 3403 Irving Pk.
Chicago; Uptown, 4508 Broadway
Chicago; Van's Cycle, 6334 So. Stony
Chicago; Van's Repair, 1754 W. 79th
Chicago; Victory, 1546 E. 53rd
Chicago; Village, 3044 W. 111th St.
Chicago; The Hobby, 4010 No. Kimble
Chicago; Three Bros., 5723 N. W. Hwy

CHICAGO

Complete stock of kits and supplies for
TT, O, S, HO railroads, race cars,
boats, airplanes
TROST MODEL SHOP
3111 W. 63rd St. PRospect 6-1354

Chicago; Wakeford, 7419 So. Cottage Gr.
Chicago; Warner Elec., 1412 W. Jarvis
Chicago; Webers, 4128 N. Lincoln
Chicago; Wee Folks, 1832 E 79th St.
Chicago; West, 5808 W. Chicago Ave.
Chicago; Zenith Hobby, 5155 W. Lake St.
Chicago Hts.; Town Stores, 52 E. 16th
Cicero; Airplane & Hobby, 6129 W. Cermak
Cicero; Hobbytown, 5245 W. 25th
Cicero; Reliance, 5813 Cermak Rd.
Danville; Hobby, 904 N. Vermilion
Danville; Grack's, 17 West Main St.
Decatur; Hobby House, 124 E. Prairie
Decatur; Hobby, 123 E. William
Des Plaines; Dick's, 1604 Oakton St.
Des Plaines; Weber's, 1410 Prairie
Dixon; B & A, 114 E. First
Downers Grove; Appliance, 5222 Main
E. St. Louis; Hobbies, 2303 State
Elmhurst; Al's Hobby, 109 Addison Ave.
Elmurst; Du Page, 109 W. 1st St.
Elmwood Pk.; Toy & Hobby, 244 Harlem
Evanston; Hobby, 601 Davis St.
Evanston; Hobby, 713 Howard
Forest Pk.; Arnold's, 7405 Madison
Galesburg; Camera Shop
Galesburg; Ray's, 53 N. Cherry St.
Glen Ellyn; Glen Ellyn Hobby, 447 Main St.
Glenwood; School for boys, Lush
Glenwood; Specialties, Box 1
Godfrey; Joe's, Ramona Place
Grayslake; Bishop's, Old Lake
Herrin; Baille, Monroe At 14
Highland Pk.; Cycle, 486 Central
Homewood; Glenn's, 1872 Dixie Hwy.

Joliet—Walt's Hobby and Model Shop
60 N. Joliet Phone 6-1632

Kankakee; Flambeck, 354 So. East
Kankakee; Wall's, 177 N. Schuler Ave.
La Grange; Gordon's, 605 W. Hillgrove
La Grange; Hobby, 124 Burlington

LA GRANGE

Model railroad, airplane boat kits, toys,
games, Lionel factory service station.
Open Monday, Thursday evenings.
LA GRANGE HOBBY CENTER
11 W. Calendar Fleetwood 4-1220

Libertyville; Taylor, 523 N. Milwaukee
Lombard; Wheeler, 104 W. St. Charles
Macomb; Dean's, 134 So. Randolph
Macomb; Hdwre, 126 S. Lafayette
Marion; Blankenship, 1020 N. Market
Mattoon; Oakley & Son, 2601 Marshall Ave.
Maywood; Mac's, 5th & Madison Sts.
Moline; Hobby, 1511 6th Ave.
Morris; Hobby, 107 W. Washington
Mount Vernon; Bud's Model Shop, 719 10th
Oak Lawn; Hadleys, 5005 W. 95th St.
Oak Park; Mazada, 1135 Westgate
Oak Park; Realistic, 725 S. Blvd
Oak Park; Reyff Toys, 111 N. Oak Park
Oak Park; Toy, 113 N. Oak Park
Olney; Leo's, 1053 So. East

Park Ridge—Park Ridge Hobby Shop
30 Main St. TAlcott 3-4464

Palatine; Pioneer, 6 S. Blockway
Park Forest; Sports Inc., 19 Plaza
Peoria; Hobby, 418 S. Adams St.
Quincy; Bean, 429 Hampshire
River Grove; Hobby, 8339 W. Grand
Riverside; Arcade, 6 E. Quincy
Rockford; Adolphson, 2215 E. State
Rockford; Coln, 209 S. Church
Rockford; Gross, 1926 Carney
Rockford; Trlad, 1229 Broadway

Rockford—Harry's Hobbies & Toys
508 7th St. Phone 3-4707

Rockford—Carney's
2501 Auburn St. Phone 2-9652

Rock Island; Boot, 1733 Thirtieth
Rock Island; Boot, 3005 5th
Rock Island; Boot, 1733 30th
Rock Island; Hilltop, 4105 Fourteenth
Roselle; Hobbyland, 131 Roselle
Roselle; Hobbyland, 105 E. Irving Pk.
Salem; Hobby Center, 306 W. Olive St.
Saybrook; Zachay, Att. Steben Zachay
Shelbyville; Herron Dept.
Skokie; Hobby, 8122 Lincoln
Skokie; Hob Craft, 7951 Niles Ave.
Springfield Booth, 216 S. 6th
Springfield; Hatfield, 412 Gross
Springfield; Hobby, 304 E. Washington
Taylorville; Mile's, 1214 W. Rich
Urbana; Lorry's, 206 W. Main
Urbana; Soprt, 116 So. Race
Watseka; Radio, 109 So. 4th
Waukegan; Sporting, 105 So. Genesee
Wheaton; Du Page, 115 N. Hale St.
Wilmette; Keller, 1719 Walnut
Wilmette; Otis, 619 Greenbay
Winnetka; Fix-It, 732 Elm
Woodstock; Toy & Hobby, 225 Benton

INDIANA

Anderson; Bickel's, 40 W. Ninth
Anderson; Model, 1503 Fletcher
Bedford; Martin Supply, 1020 15th St.
Brazil; Layle, 202 E. National
Lafayette; Cridercraft, 201 E. State St., W.
Connersville; Mid-way, 217 W. 8th
Crown Point; Clarke's, 103 So. Court
Elkhart; Berman's, 123 S. Main St.
Elkhart; Long's, 1035 S. Main
Evansville; A B C, 125 N.W. Sixth St.
Evansville; Bentz Hobby, 600A S.E. Second
Evansville; Porter, 962 Washington

Evansville—The Toy Shop
1400 Oak Hill Rd. Phone 6-4859

Ft. Wayne 4, Carroll's, 1215 Grant Ave.
Ft. Wayne; Schaefer, Mr. Kruse Rte 8

Fort Wayne—Carroll's Model RR Shop
1215 Grant Ave. AN 3050

Gary; Brams Toy, 4484 Broadway
Gary; Roberts, 110 N. 7th
Goshen; Kintigh's, 102 S. Main St.
Hammond; Dildine, 5711 Calumet
Hammond Muka's, 1128 Kenwood
Hartford City; Cronin, 111 N. High

INDIANAPOLIS

Planes, Crafts, Boats and Toys
Trains—HO, Lionel and American Flyer
Lionel and A.F. Factory Service
LES' HOBBIES AND TOYS
(Les' Repair Service)
4206 College HI 8925

Indianapolis; Bob Steele, 6143 E. Washington
Indianapolis; Broad, 929 E. Westfield
Indianapolis; Hobby, 37 E. 34th
Indianapolis; Hobby, Wm. H. Block
Indianapolis; Jolly, 1503 E. Michigan
Jettersonville; Gutermuth, 226 Sunset
Jeffersonville; G. A. Schimpff, 347 Spring St.
Kokomo; Victory, 104 S. Union

KOKOMO

Lionel-American Flyer—HO-O Gauge
Planes — Race Cars — Boats. Repairing
Open 10 a.m. to 10 p.m. Sun. 1 to 5.
HOLLOWAY'S HQBBY HOUSE
825 S. Washington St. Phone: 2-5890

Lafayette; Model, 805 S. 25th
Lafayette; Hobby, 110 Main
Lebanon; Model, 115 Main
Marion; Libengood's, 320 S. Boots
Michigan City; Congdon's, 4th & Franklin Sts
Michigan City; Community Craft, 429 Franklin

Mishawaka—Bob's Hobby Shop
713 N. Main St. Blackburn 5-8111

Muncie; Kirk, 117 E. Main
Muncie; Ross, 12th & Hoyt
New Albany; Darnell's, 316 Vincennes St.
New Albany; Watters, 2509 Glenwood
Noblesville; Hobby, 1152 Evans
Perrysville; Allen & Crisp
Peru; Mack's, 15 S. Water
Plymouth; Hobby, 223 Angel
Portland; Art, 307 No. Meridian
Richmond; Mosey, 412 Main
Rushville Herb's, 1123 W. Market
Seymour; Hobby Center, 212 E. 2nd St.
Shelbyville; Siefert's, 37 E. Wash
Terre Haute; McMillan, 726 Wabash
Valparaiso; Johnstons, 59 Lincoln Way
Whiting; Neal Price's, 1309 119th St.

IOWA

Ackley; Gardner's, Att. L. F. Gardner
Ames; Hobby, 200 Main
Burlington; Carl's, 118 Ash
Cedar Rapids; Drew's, 214 First S.E.
Cedar Rapids; Hand's, 1297 30th N.E.
Clinton; Scribners, 108 S. 2nd St.

DAVENPORT

Everything in HO Gauge
Lionel, American Flyer
TRI CITY HOBBY CENTER
201 E. 2nd 3-4794

Davenport; Elliott Box, 418 Cram Field
Davenport; Hobby, 215 E. Third
Davenport; Tri Hobby, 201 E. 2nd
Des Moines; Capitol City Hobby, P.O. Box 901
Des Moines; Dan Yates, 3015 Ingersoll
Des Moines; Highland, 1061 6th
Des Moines; Hyman's, 405 6th Ave.
Des Moines; Lally's, 1200 Mulberry
Des Moines; Rothfus, 6110 S.W. 9th
Decorah; Dewitt, 610 Winnebago
Dubuque; Olson's, 414 Main St.
Forest City; Sign & Hobby
Ft. Dodge; Hobby, 25 South 12th
Ft. Madison; Photo, Marjuette Bldg.
Green Mtn; Thomas Att. Thomas
Hawarden; Dowdey, 907 Central
Iowa City; Hobby, 210 N. Linn St.
Iowa Falls; Peterson Hdwe.
Le Mars; B & B Store
Mason City; Dagle's, 12 2nd N.W.
Mason City; Decker, 205 No. Federal

Mason City—Don's Train Service
609 Jefferson Phone 2401

Muscatine; Massey's, 327 E. 2nd
Nevada; Repair Shop
Ottumwa; Model, 335 E. Main
Sioux City; Olson, 317 4th St.
Sioux City; Patch, 406 24
Waterloo; Boylan, 433 Center
Waterloo; Smiley's, 613 Water
Waterloo; Kemp's, 512 W. 4th
Waterloo; Wilcox Hobby, 416 W. Parker St.

KANSAS

Almena; Sprague Radio Service
Coffeyville; Hall's, 121 W. 9th
Garden City; Champion, 210 6th
Hays; Schlegel's, 118 E. 11th
Herington; Model Supply, Bx. 96
Hutchinson; Reno, 409 N. Main
Kansas City; Jim's, 13 South 18th St.
Leavenworth; Ralph's, 308 So. S St.
Liberal; Friesland's, 115 E. Harthington
Manhattan; Brown Music, 429 Poyntz
Pittsburgh; Lee, 313 N. Broadway
Salina; Jayhawk RR Supply, Box 552
Salina; St. Clair's, P.O. Box 778
Scott City; Van Antwerp, Bx. 427
South Haven; Lansco Model, Lantz
Spearville; Rath & McMillan
Topeka; Martin, 107 East 6th
Topeka; State Hobby Shop, 1205 Kansas Ave.
Topeka; State, 1021 W. 6th
Wichita; Gwinn, 142 Market St.
Wichita; Hobby, 2122 S. Terrace
Wichita; Orr's Look, 118 N. Topeka
Wichita; Hoby Shop, 542 E. Kellogg
Wichita; Model Hobby, 4712-b E. Central
Winfield; Enterprise, 812 Main

KENTUCKY

Covington; Camera, 531 Madison
Lexington; King, 367 E. Main St.
Louisville; Ellis, 641 Rawlings
Louisville; Fleland's, 818 S. Fourth
Paducah; Sports, 215 Broadway
St. Mathews; Model, 3805 Wilmington

LOUISIANA

Alexandria; Beasons, 1606 Lee St.
Bastrop; Hobby, 109 So. Franklin
Baton Rouge; Kirby, 209 S. Ferdinand
Baton Rouge; Carr's, 141 Bedfords
Baton Rouge; Pelican, 2815 Main
Lake Charles; Zempter's, 909 Ryan
La Place; Dreitz Store
Monroe; Keller's, 407 De Siard
New Orleans; Cress, 1134 St. Charles
New Orleans; Hobby, 4507 Freret
New Orleans; Hubb, 2618 S. Broad
New Orleans; Maison, 901 Canal St.
New Orleans; Mark's, 1939 Jefferson
New Orleans; Zula Frick's 413 Royal St.
New Orleans; Hobby, 334 Baronne
Shreveport; Fitzgerald, 2916 Gilbert
Shreveport; Kurtz, 7003 Southern
Shreveport; Kraft, 305 E. 62nd
Shreveport; Weismans Toy, 717 Milan
Sulphur; Hobby, 234 E. Elizabeth

MAINE

Augusta; Mansurs, 257 Water St.
Bath; Bath Hobby Shop, 912 Washington St.
Bangor; Wight's, 54 State Street
Lewiston; Joe's Train Shop, 8 Tampa St.
Mars Hill; Radio Service
Westbrook; Bob's Hobbies, 844 Main

MARYLAND

Annapolis Hacks Hobby, 134 Main St.
Annapolis; Photo, 151 Main St.
Baltimore; Al's Train Repair, 8024 Eastern
Baltimore; Bateman's, 1937 E. Monument St.
Baltimore; Brooklyn Hobby Centre, 405 Patap
Baltimore; Doodler's, 5208 Belair Rd.
Baltimore; Edmondson, 4578 Edmondson
Baltimore; Engelman, 3316 Greenmount
Baltimore; French's, 304 W. Baltimore
Baltimore; Funk's, 701 So. Ann
Baltimore; Gay, 1610-1612 N. Gay
Baltimore; Goffman's, 330 Pk. Ave.
Baltimore; Gull, 110 E. Overlea Ave.
Baltimore; Hobby, 5611 York Rd.
Baltimore; Kahl's, 5208 Belair Rd.
Baltimore; Park Lane, 2714 W. Coldspring
Baltimore; Lloyds, 2111 N. Charles
Baltimore; Model, 321 N. Charles
Baltimore; G. A. Rahnis, 231 S. Highland
Baltimore; N. Parkville Sport, 8326 Hartford
Baltimore; Uptown Hobby, 1700 Gorsuch Ave
Baltimore; Ziggy's Hobby, 305 W. Fayette
Baltimore; Spot Hobby, 304 Pk. Ave.
Baltimore; Winship, 79 Shippling Pl.
Bel-Air; Hobby Center, 17 Courtland St.
Berlin; Photo, 30 Jefferson St.
Bladensburg; Akman's, 54 Annapolis Rd.
Brunswick; Weller's, 107 9th Ave.
Cambridge; Hobby Horse, 4 Race St.
Cumberland; Hobby, 55 North Centre
Cumberland; Lee's, 228 N. Centre
Dundalk; Merritt, 2100 Merritt Ave.
Dundalk; Winship, 79 Shipping Pl.
Frederick; Seeger, 45 S. Market
Glen Burnie; Freddes Hobby, 10 Drumpcont
Hagerstown; Caseys, 448 No. Mulberry St.
Hagerstown; Hobby, 147 W. Franklin St.
Hampstead; Hobby Supplies
Hyattsville; Suburban Hobby, 3809 Hamilton
Riverdale; Suburban, 4505 Queensbury
Rockville; Gene's, 40 W. Montmorery
Salisbury; Howard's, 617 Truitt St.
Salisbury; Voigt's, N. Salisbury Blvd.
Silver Springs; Art & Hobby, 11264 Georgia
Silver Springs; Gene's, 2337 Ennalls Ave.
Silver Springs; Haynes Camera, 8618 Georgia
Towson; F&L Sato, 406 York Rd.
Towson; Holly Auto, Loch Raven & Joppa

MASSACHUSETTS

Amherst; Hastings, A. J.
Andover; North E. Scale, Box 32
Arlington; Bancroft, 1377 Mass. Ave.
Attleboro; Flynn, 13 Bank St.
Aver; Sporting, 34 Main St.
Belmont; Bob's Hobby, 54 Sycamore
Beverly; Community, 509 Rantoul St.
Boston; Hobbytown, 4 Park Sq.
Boston; Jordon Marsh, Wash. & Avon

BOSTON

Boston's Oldest & Largest Headquarters
Model Railroad & Traction Equipment
Custom Painting & Lettering
BOSTON MODEL RAILROAD CO., INC.
665 Atlantic Ave. Boston, Mass.

BOSTON

Model Railroads Exclusively
Lionel-American Flyer-Marklin
Complete Line of HO
Home of Tremont 26 Switch
ERICH FUCHS
26 Tremont Street Boston

Braintree; Cycle, 357 Washington
Brockton; Hobby, 673 E. Elm St.
Brookline; Beacon, 1378 Beacon St.
Cambridge; Crosby's, 1704A Mass. St.
Canton; Hobbyville, 834 Oakdale Ave.
Clinton; Zoll's, 107 High St.
East Braintree; Capeway, 17 Quincy Ave.
East Dedham; Scale's, 24 High St.
Fall River; Hobby & Craft, 422 S. Main
Fall River; McLane's, 43 Purchase St.
Fitchburg; McManus Hobby, 754 Main St.
Framingham; Joe Browns, 7 Kendall
Gardner; Sporting Goods Corp.
Greenfield; Howard's, 424 Davis St.
Haverhill; Mitchell, 30 Essex St.
Holyoke; Carlisle, 365 High St.
Holyoke; Leonard, 418 High St.
Hyannis; Hobby, 538 Main St.
Indian Orchard; Tenerowicz, 12 Parker
Lawrence; Lumber, 24 Essex St.
Lawrence; Modelers, 288 Park St.
Lowell; Poirier, 636-646 Ferrimack
Lynn; Sam's Cigar Store, 2 Andrew
Malden; Hoffman's, 220 Pleasant St.
Milford; Nolan Hobby, 159 Main St.
Nantucket Island; Bill's, 31 India St.
New Bedford; Hobby Town, 1501 Acushanet
Pittsfield; Sporting, 33-37 Bradford
Plymouth; M&M Sporting, 10 Main
Quincy; Bills, 135 Federal Ave.
Quincy; Stanley Winthrop, 90 Wash.
South Duxbury; Toabe's Duxbury Hdwe
Springfield; Carlisle, 1548 Main St.
Springfield; Hobby, 285 Main St.
Springfield; Johnson's, 1379 Main
Springfield; Springer, 339 Bay St.
Taunton; Earl's TV & Hobbies, 36 Weir St.
Taunton; Engine Repair, 38 Purchase St.
Wakefield; Greenwood, 89 Albion St.
Waltham; Coyes Hobby, 688 Main St.
Waseca; Kiesler's Hobby, Box 4
West Roxbury; Stevens, 1832 Centre
West Somerville; Barbour's, 1 College
Wilmington; Avery's, 446 Main St.
Worchester; Henry's, 54 Trumbull St.
Worchester; Johnson Sptg, 304 Main

WORCESTER

O. S. gauge scale A.F. HO & TT. Large
operating layouts in HO & TT. Wire,
Tools. Next to Post Office
Open Wed., Thurs., Fri., till 9:00 p.m.
HOCK & HOBBY
601 Main St. Tel 4-7047

MICHIGAN

Adrian; Phil's, 115 Toledo St.
Alpena; Toy Shop, 116 S. 2nd St.
Ann Arbor; Rider's, 115 W. Liberty

Battle Creek—Barker Hobby Shop
33 Capital Ave., N.E. Phone 8-8211

Battle Creek; Prep Shop, 243 W. Mich.
Battle Creek; Wheelock, 30-32 N. McCamly
Bay City; Hobby, 1107 Washington St.
Benton Harbor; Twin City, 383 W. Main
Cadillac; Father & Son, 216 N. Mitchell
Charlotte; Hobby Shop, 207 S. Main St.
Clinton; Texas Shop, 308 W. Michigan
Dearborn; Joe's, 24726 Ford Rd.
Dearborn; Temple's, 23471 Michigan

DEARBORN

Your best source for HOn3, HO & O Gauge
Kits supplies, tools and books
Dearborn's finest hobby shop
We accept mail orders
11 to 7 Open Sundays
STAR HOBBIES
22005 W. Outer Dr. Ph. Logan 5-9670

Detroit—Tom's Model Hobby Shop
28 Duffield at Woodward WO 3-3273

Detroit; Bills, 7139 Harper Ave.
Detroit; Bob's Bicycles, 11739-41 Linwood
Detroit; Boullard Hobbies, 13936 E. Warren
Detroit; Boullard, 9331 Mack
Detroit; Columbia Radio, 8710 Van Dyke
Detroit; Dallaire, 9838 Wyoming
Detroit; Jack Davis, 15120 Grand River
Detroit; De Luxe Elec., 9947 E. Jefferson
Detroit; Downtown Repair, 24 Duffield
Detroit; Downtown Train, 122 W. Elizabeth

DETROIT

Complete line HO Scale Model, Lionel & AF-approved Service Station. Block north of Tuller Hotel. 9 to 5:30. Monday to 9.

DOWNTOWN TRAIN & CAMERA SHOP

122 W. Elizabeth St. WO. 1-6932

Detroit; N.W. Hobbies, 19446 Sunderland
Detroit; Earl's, 16302 Harper
Detroit; Eric Products, 19450 Woodward
Detroit; Frank's Hobbies, 14367 Lappain
Detroit; Fromms Hdwe, 8696 Grand River
Detroit; Harry's Hobbies, 12838 E. Jefferson
Detroit; Held Model, 14466 Eastburn
Detroit; Joe's Hobby, 18830 Wyoming
Detroit; Lupo's Camera, 11708 Chalmers
Detroit; Maxwells, 15215 W. 7 Mile
Detroit; Millers Feed, 21667 Grand River
Detroit; Motor City, 14114 Gratiot
Detroit; Train Clinic, 13950 Hubbell Ave.
Detroit; Nottingham, 6027 Nottingham
Detroit; Pal Bile, 11921 Grand River
Detroit; Rosedale, 19526 Grand River
Detroit; Point Bike, 16349 E. Warren
Detroit; Royal, 12721 W. 7 Mile Rd.
Detroit; Sky's Repair, 11805 Harper
Detroit; Tom's 28 Duffield Att. Woodward
Detroit; Vaughan Train, 15434 Harper
Garden City; Lou's Hobby, 30944 Ford Rd.
Detroit; West Side, 4839 W. Vernor
Ferndale; Models, 22441 Woodward Ave.
Flint; Loomis Trains, 1508 So. Saginaw
Flint; Kearsley, 209 E. Kearsley
Freeland; Hobby Shop, R No. 3, Box 74A
Grand Haven; Carpenter, 116 Washington
Grand Rapids; Merrill's, 1420 Wealthy
Grand Rapids; Myers, 16 W. Fulton St.
Grand Rapids; Hobby, 239 Monroe N.W.
Highland Park; Meiers, 16424 Hamilton
Holland; Central Hwre, 29 W. 16th St.
Holland; Bicycle, 254 River Ave.

Jackson—Model Railroad Specialty Co.
1915 E. Michigan Ave. Phone 4-2572

Jackson; Hobby, 627 Monroe St.
Jackson; Hobby Hub, 222 Francis St.
Jackson; Model RR Hobby, 1915 E. Michigan
Jackson; Vern's, 602 W. Biddle St.

Kalamazoo—Dick's Model Railroad Serv.
3307 Dearborn Ave. Ph. 2-6268

Kalamazoo—Hiler's Model Railroad Shop
712 Southworth Phone 2-8248

Kalamazoo; Hobby, 1728 S. Westnedge
Kalamazoo; Miller, 330 W. Michigan
Lansing; Gene's Cycle, 702 W. Barnes
Lansing; Hobby, 311 So. Washington
Lansing; Hobby, 12-A Michigan Theatre
Lansing; N W Model Sup, 1310 Knollwood
Lincoln Park; Busy B, 3410 Fort St.
Livonia; Rosedale Shop, 31635 Plymouth Rd.
Manistique; D M C, 5 & 10c, Box 149
Mankato; J. Manderfeld, 303 S. Front
Marquette; Krieg's, Fourth & Wash Sts.
Menominee; Zaellner, 2313 Broadway
Midland; Samsel, 302 No. Saginaw Rd.
Monroe; Ace, 70 E. 3rd St.
Monroe; Ace, 27 W. Front St.
Monroe; Dunbar Model, 107 Front St.
Mt. Clemens; City Sport, 16 Macomb St.
Mt. Pleasant; Hobby Shop, 801 W. Broadway
Mt. Pleasant; Central Hobby, 428 Oak St.
Mt. Pleasant; Cotton, 117 N. Main St.
Muskegon; C. Karel and Sons, 936-40 Pine
Muskegon; Ferrell's, 241 Irwin Ave.
Niles; Office Sup., 11 East Main
Plymouth; Rosedale, 31635 Plymouth Rd.
Pontiac; Scarlett, 20 E. Lawrence
Pontiac; Tasker's, 63 W. Huron St.
Port Huron; Bell's, 518 Grand River
Port Huron; Hank, 708 Huron Ave.
River Rouge; Hobby, 81 Le Roy St.

Royal Oak — Dunn's Camera & Hobby
610 S. Washington Lincoln 2-7366

Saginaw; Melcraft, 809 E. Genasce
Saginaw; Norm's, 345 So. 25 St.
Saginaw; Skycraft, 225 No. Hamilton
Sault Ste Marie; Pinnacle, 104 E. Spruce
Scottville; Bill's, 5c—1 Store Ashley
So. Haven; Johnson's, 255 Center St.
Three Rivers; Nichols, 41 N. Main St.
Traverse City; Bilmar Sport Shop
Traverse City; Ray's Hobby, 1030 Peninsula
Warren; Hobby Shop, Box 138
Wyandotte; Lyle's Model, 13117 Eureka

MINNESOTA

Albert Lea; Joe's Hobby, 220 E. Clark
Bemidji; Parkway Store, Bemidji & 15th St.
Duluth; Hobby Shop, 124 W. 1st St.
Duluth; Martin Carr, 1911 W. Superior
Excelsior; Gle-Craft, 272 Water St.
Fergus Falls; Hiawatha Lane, Box 473
Hibbing; Hobbies, 606 E. Howard
Hibbing; Scoop, 211 First Ave.
Hopkins; Hobby King, 1719 Excelsior
Litchfield; Rogers, 23 E. 2nd St.
Mankato; Jos. Manderfeld, 509 S. Front
Minneapolis; Airport Hdwe, 5408 34th Ave.
Minneapolis; Bilfelt's, 2545 Nicollet Ave.
Minneapolis; Cordes, 3226 Fremont Ave.
Minneapolis; Curtisy, 743 E. Lake
Minneapolis; Donaldson's, Dept. 4th Floor
Minneapolis; Dayton Co., Hobby Dept.
Minneapolis; Gle-Craft, 272 Water St.
Minneapolis; Heights Handi, 4005 Central.
Minneapolis; Hobby King, 1719 Excelsior
Minneapolis; Hub Hobby, 40 W. 66th

MINNEAPOLIS

Minneapolis Handicraft Center
Specializing in HO trains

Mantua Service Station

GAGER'S HANDICRAFT

1024 Nicollet Ave. BR 6757

Minneapolis; Gager's, 1024 Nicollet Ave.
Minneapolis; Hobbycraft, 6238 Lyndale
Minneapolis; Hobbies, 8036 Minnetonka Blvd
Minneapolis; Larry, 2207 Riverside
Minneapolis; Reit Hobby, 703 E. Lake St.

MINNEAPOLIS

The Twin Cities' only All-Gauge Railroad Source. Kits and Ready-to-run. Hours 10 a.m. to 5:30 p.m., daily except Sunday.

RAY'S TRAIN SHOP

55 South Fourth St. ATlantic 0786

Minneapolis; Scottys, 2424 Central Ave.
Minneapolis; Thayer, 3909 W. 50th St. N.E.
Minneapolis; Woodcraft, Lake St. at Bryant Av.

Rochester; Ebb's, 7 E. Center St.
Rochester; West Side, 1115 2nd St., S.W.
St. Cloud; Hobby, 24 6th Ave. So.
St. Paul; Cal's Hobby, 593 N. Snelling
St. Paul; Courtesy, 377 Wabasha St.
St. Paul; Ken's, 1227 Highland Pky.
St. Paul; Lightfoot, 2028 St. Clair Ave.
St. Paul; Parker's, 1652 Grand Ave.
St. Paul; Woodcraft, 374 Robert St.
St. Paul; Uptown, 357 Robert St.
Waseca; Kiesler's Hobby, Box 4

MISSISSIPPI

Biloxi; Art's, 411 W. Howard
Columbus; Banks Hdwe, Banks JC
Greenville; Foresman's Model, Bx. 388
Jackson; Office Sup., 517 E. Capitol

MISSOURI

Bonne Terre; Hobby Shop, 8 W. School St.
Cape Girardeau; Ferguson, 210 Independence
Carthage; Sign, Grand Ave. Rd.
Chillicotha; Jack's Model, 453 Locust St.
Columbia; Atkinson Tire & Hobbies, 206 N. 8th
Grandview; Hobby, Box 292
Independence; Cooper's, 1312 W. Lexington
Joplin; Ken's, 3122 Pearl
Kansas City; Ace Model, 20 E. 39th St.
Kansas City; Antioch Hdwe, 5128 Antioch Rd.
Kansas City; Barrs Hobby, 4611 Paseo

Kansas City; Joe Falk, 1007-A Grand
Kansas City; Martin's, 108 E. 135th St.
Kansas City; Model, 3507 Prospect Ave.
Kansas City; Model Sup, 431 Nichols Rd.
Kansas City; Northeast, 4825 Independence
Kansas City; Pete's, 5725 Prospect
Kansas City; Spotlight RR, 7427 Troost
Kansas City; Siehr Bros., 404 Westport Rd.

KANSAS CITY

Complete Sales & Authorized Service.
Lionel-American Flyer-Marx Scale Equip.

SIEBER BROS.

404 Westport Rd. Kansas City

KANSAS CITY

HO-S and Lionel Trains
Planes — Toys — Crafts
Formerly Mission Scale Model Shop

BARR'S HOBBY SHOP

4611 Paseo LI. 9455

Kirkwood; Cowles, 106 N. Kirkwood Rd.

Maplewood—Hobby Chest
2728 Sutton

Neosho; Union Bus Depot, 106 W. Main
Oak Grove; Gene's Hobby Shop

St. Joseph—Model Supply Shop
905 Frederick Ave. Phone 40785

St. Louis; Ace Model, 3145 Park Ave.
St. Louis; Bell Sport & Hobbies, 6190 Delmar
St. Louis; Charlie's Hobby, 4624 Macklind
St. Louis; Foster Book, 410 Washington
St. Louis; Henze Hobby, 5305 Lillian
St. Louis; Jimmy's, 5117 Delmar
St. Louis; Johnston RR Shop, 3118 Chippewa
St. Louis; Les Merrell's, 5242 Wahada
St. Louis; St. Louis Model, 2922 N. Union Blvd
St. Louis; Mundell, 6363 Easton Ave.
St. Louis; Ray's Electric, 1818 N. Grand
St. Louis; Schaefers, 5609 E. Virginia
St. Louis; S. Side, 5406 Gravois Ave.

St. Louis—Lemay—Swift Model Shop
778 Lemay Ferry Rd. HU 2466

St. Louis; Stix-Baer, 601 Washington Ave.
St. Louis; Your Hobby, 6218 Natural Bridge
Sedalia; Johnny's Hobby, 512 S. Ohio St.
Springfield E. Radio, 1000 E. Commercial
Springfield; Hoover's, 316 S. Ave.
Springfield; Ozark, 327 South Ave.
Spring Park; Repair & Hobbycraft
Virginia; Range Hobby, 204 2nd Ave.
West Duluth; Hobby, 3 No. 4th Ave.
Willmar Daves, 5th & Litchfield
Winona; Fad Shop, 79 W. 3rd St.

MONTANA

Billings; Billings Hobby, 2719 Montana
Billings; Radio, 2710 Minnesota
Browning; Glacier Studio
Great Falls; Murphy-Maclay,
Great Falls; Sturrock's, 624 Central
Red Lodge; Connies, 617 S. McGillen Bx. 214

NEBRASKA

Alliance; Bowling, Box 1368
Hastings; Hobby, 216 North Denver

Lincoln—Bartlett's Hobbies
1215 O Street

North Platte; Hobby, 415 N. Jeffers
Omaha; AK Sar Ben, NE Cor 16th & Roland
Omaha; Ben Newsstand, N.E. Cor. 16 & How
Omaha; Brans, 1413-15 Harvey St.

Omaha—House of Hobbies
40th & Dodge Sts. JA 4590

Omaha; House of Hobbies, 1111½ N. 40th St.
Omaha; Kleser's Book, 205 N. 16th St.
Omaha; Olson & Clark, 6125 Maple St.
Omaha; US News 1524 Farnam
Omaha; Van Avery, 1512 Harney St.
Scottsbluff; Higbee, 1924 Fourth Ave.
Scottsbluff; Hobby, 2017 Broadway
Scottsbluff; Hobby, Box 801

NEVADA

Las Vegas; Hobby Shop 419 Carson St.
Reno; Builders, 1274 S. Virginia St.
Reno; Camera, 170 No. Center St.

NEW HAMPSHIRE

Concord; French's, 10 No. State St.
Dover; Hoitt, 559 Central
Exeter; George, 239 Water St.
Laconia; Rogers', 626 Main St.
Manchester; Coughlins, 18 Hanover St.
Manchester; Lynch's Sport Equip. Co.
Nashua; Brown, 226 Main St.

NEW JERSEY

Asbury Park; Bicycle, 1406 Main St.
Atlantic City; Hobby, 1713 Pacific Ave.
Atlantic City; Roundhouse, 7 S. Virginia
Bayonne; Dobb's, 720 Broadway
Bedminster; Jersey Train, Rt. 32
Belleville; Bryan, 64 Union Ave.

Belleville- Belleville Hobby Shop
338 Washington Ave. PLymouth 9-6699

Bergenfield; Hobby Center, 7 Palisade Ave.
Bergenfield; Connie's Sport 53 S. Wash.
Bergenfield; Jerry's, 63 S. Washington
Bloomfield; Every Ready, 401 Broad St.

BLOOMFIELD

Bloomfield's Complete Hobby Shop, HO—S—TT—American Flyer Sales & Service

"JACK'S HOBBY AND CRAFT HOUSE"

735 Bloomfield Ave. Bl. 2-2887

PARSIPPANY

Authorized AF Service
Lionel—HO—AMT Trains
Open Sundays and Weekdays,
Evenings till 9 p.m.

RICH'S HOBBYTOWNE, INC.

Route 46 BOonton 8-2666

Bound Brook; Vince's, 113 Talmadge
Bridgeton; Edwina, 3 East Commerce
Bridgeton; Hobby, 31 Walnut St.
Bridgeton; Signal Stop, 162 N. Pearl St.
Camden; Shar's, 607 Broadway
Camden; Fair, 2748 Federal St.
Cliffside Park; Lionel City, 631 Anderson

CLIFTON

Model Railroad Specialists
Friendly, courteous service! Let us help with your Railroading Problems

CLIFTON HOBBYCRAFT

1241 Main Ave. Clifton, N. J.

Cramord; Cooper, 511 Central Ave.
Dover; Harris, 3 So. Essex St.
Dunellen; Model RR, 290 Vail Ave.
East Orange; Handlecrafts, 54 S. Harrison
East Paterson; Lionel City, 529 River Dr.
Elizabeth; Hobbyland, 300 Third St.
Englewood; Bicycle, 18 E. Palisade
Elizabeth; Hobby, 327 Morris Ave.
Elizabeth; Hobby Depot, 274 Broad

ELIZABETH

America's Largest All Train Store
Specializing in O gauge

The famous HOBBY DEPOT, Inc.

274 N. Broad St. EL 2-7039

Elizabeth; Hobby House, 1159 Elizabeth
Fair Lawn; Fishers, 12-50 River Rd.
Englewood; Beverly, 40 W. Palisade Ave.
Fairlawn; Hobby Haven, 37-08 Broadway
Freehold; Art's Photo, 10 W. Main St.
Gartield; Treasure House, 27 Passaic
Hackensack; Hobby Land, 390 Main St.

HADDONFIELD

South Jersey's Headquarters for Trains
All Leading HO Makes—Amer. Flyer—A.M.T.—American Flyer Service Station
Open 10 a.m. to 9 p.m. Daily;
10 a.m. to 6 p.m. Saturday
Free Parking for Patrons

HIGHWAY HOBBY HOUSE

Cor. King's H'way & Haddon Ave.

HAddonfield 9-6860

Hammonton; Mickey's, 11 Horton St.

HASBROUCK HEIGHTS

Handling all scale gauges. Large parts stock. A.F. & Lionel
10 a.m. to 7 p.m. Wed. & Fri. 10 to 9

THE EASTERN MODEL RAILROAD CO.

169 Boulevard HASB 8-1838

HasBrouck Hgts; Eastern Model, 169 Blvd
Hasbrouck Hgts; Covals, 196 Blvd
Hillside; Hobby, 235 Hollywood
Hillside; Hobby, 1303 Liberty Ave.
Irvington; Hobbycraft, 888 18th Ave.
Irvington; Hobby Shop, 760 Springfield
Irvington; Madison, 1288 Springfield
Jersey City; Bill's, 447 Jackson Ave.
Jersey City; Hobby-Rama, 157 Jackson Ave.
Jersey City; Main Radio Shop, 255 Central
Jersey City; Simonetti, 137 Monticello

JERSEY CITY

"HO"—Trains and Accessories
American Flyer Sales Service
Engines, Planes, Boats, Models

THE HOBBY SHOP

2182 Blvd. Jersey City

Jersey City; Turnier, 52 Five Corner Station
Kearny; Elm Hobby, 612 Elm St.
Laurelton; Bobby Haven, Barbara & Taylor
Linden; Rosewood, 115 N. Wood Ave.
Livingston; Dog House, 18 E. Mt. Pleasant
Lyndhurst; Crawfords, 212 Stuyvesant Ave.
Maplewood; Osmuns Hobby Shop, 1 Highland
Maplewood; Ralph's Bike, 513 Valley
Maplewood; Smith, 66 Pierson Rd.
Merchantville; Zane, 201 Linderman
Middletown; Gordons, Highway 35
Montclair; Robin, 215 Glenridge Ave.
Mount Holly; Holly Hobbies, P.O. Box 191
Mountainside; Drug, 899 Mountain Ave.
Newark; Ace Hobbycraft, 385 W. Market
Newark; Fisher, 517 Ferry St.
Newark; Kresge Dept. Store, Market
New Brunswick; Varga's, 57 Easton Ave.
North Plainfield; Apgar's Hobby, 172 Somer
Nutley; Shannon's, 505 Franklin Ave.

Parsippany—Rich's Hobbytowne, Inc.
Route 46 BOonton 8-2666

Palmyra; Photo, 16 E. Broad St.
Passaic; Hobby, 327 Broadway
Paterson; Bell, 213 Slater St.
Paterson; Edwin's, 196 Market St.
Paterson; Goldies, Box 2641.
Paterson; Totowa Hobby, 536 Union Ave.
Paulsboro; Sam's, 413 Billingsport Rd.
Penns Grove; Bowen's, 20 Main
Perth Amboy; Fishkin, 157 Smith St.
Pitman; Crowley's, 42 Pitman Ave.
Pitman; Dorman's, 118 S. Broadway
Plainfield; Bert's, 412 Watchung Ave.
Plainfield; Craftsman, 300 Park Ave.
Pleasantville; Mainland Cycle, 87 No. Main
Point Pleasant; McLaughlins; 628 Bay Ave.
Pompton Lakes; Hobbytair, 27 Colfax Ave.
Pompton Lakes; Pomptom Hobby Craft, 203
Preakness; Lionel City, Hamburg Tnpk.
Rahway; Hobby Shop, 1645 Irving St.
Red Bank; Sherwood's, 7 Broad St.
Ridgewood; Flat, 19 W. Ridgewood Ave.
Ridgewood; Hobby, 196 E. Ridgewood

RUTHERFORD

Rutherford's leading R.R. Headquarters TT, HO, S, O gauges
Lionel, Gilbert, Parts, Gargraves track.

PAUL'S HOBBY SHOP

306 Union Ave. GE-8-0192

Somerville; Bob's, 21 S. Bridge St.
Somerville; Bob's, 18 Division St.
Somerville; Hdwe., 118 W. Main
So. Orange; Essex Hobby, 14 Sloan St.
Springfield; Kay's, 279 Morris Ave.
Trenton; American Radio, 25 E. Hanover
Trenton; Ben's Hobby, 442 S. Broad St.
Trenton; Hobby, 237 E. State St.
Union; Lucas, 2005 Emerson Ave.
Union City; Cerveny, 2108 Bergenline
Vineland; Hobby House, 25 N. 6th St.
West Collingswood; Watson, 520 Richey
Westfield; Play Fair, 47 Elm St.

WESTFIELD

Kits and Supplies for Railroads, Boats and Airplanes
Since 1939

CENTRAL JERSEY MODELS

Cor. North & Lenox Ave. Westfield

WEST ORANGE

Large selection of HO & TT Supplies
Planes—Boats—Motors

WILLOW HOBBY NOOK

25 Tremont Ave. West Orange

Woodbury; The Hobby Shop, 136 S. Broad

NEW MEXICO

Albuquerque; B&B Hobby, 1008 N. Third St.
Albuquerque; Denton, 837 So. Kentucky
Albuquerque; Preddies, 1804 E. Central
Albuquerque; Duke City, 4517 Central, N.E.
Carlsbad; Sparks, 110 So. Canal St.
Raton; Crowe's Jewelry
Roswell; Doyle, 105 W. Walnut St.

NEW YORK

Bronx; Bob's Hobby, 2205 Lyon
New York; Phil's, 603 E. 5th St.
New York; America's Hobby, 156 W. 25th
New York; Art's, 3087 Third Ave.
New York; Bronx, 1359 Jerome Ave.
New York; Fanne's, 1333 Southern Blvd.
New York; Greenstein, 115 Allen St.
New York; Hobbyland, 1439 St. Nicholas
New York; Hobby Land, 24 Park Row
New York; General, 3120 Bainbridge Ave.

NEW YORK

HO—Lionel—A.F.—Marklin-Sales & Ser.
Radio Control Equip. Planes—Boats—Crafts
Daily 9 to 9 Sun. & Holidays 11 to 7

HOBBY MART

Port Authority Bus Terminal (Heart of N.Y.C.)

625—8th Ave. BR 9-5869

New York; Jac-a-Del, 933 Southern Blvd.

NEW YORK

Trains are our business—we have no sidelines. Authorized repair station, Mantua, Thomas, General Models, Lionel, American Flyer, etc.

MODEL R.R. EQUIPMENT CORP.

23 W. 45th St. LU. 2-2760-1-2

New York; Krentz, 1054 Third Ave.
New York; Normarth, 175 Second St.

NEW YORK

Trains from the world over!
Accessories, parts & repairs, all gauges
World's leading hobby house. 5 floors

POLK'S HOBBY DEPT. STORE

314 Fifth Ave. at 32nd St. BR 9-9035

New York; Union Port, 1138 Castle Hill
New York; University, 1701 Macombs Rd.
New York; Woodland Hobby, 4330 Kathonah
Bronx; Fordham Hobby, 470 E. Fordham Rd.
Bronx; Hobbycraft, 769 Lydig Ave.
Bronx; Hobby, 3991 White Plains Rd.
Bronx; 184th St. Hobby, 101 E. 184th
Middle Bronx; Bronx Hobby, 1359 Jerome
Bronx; Chester Hobby, 2317 Westchester Ave.
Bronx; Oval Juvenile, 1453 Unionport Rd.
Bronx; Van Cortlandt, 5973 Broadway
Bronx; Woodlawn Hobby, 4330 Katonah Ave.

Brooklyn; Acme, 81-20 Seventh Ave.

Brooklyn 1—Abraham & Straus
Dept. No. 661 TRiangle 5-7200

Bklyn; Best Buys, 120 Flatbush Ave.
Bklyn; Bobbie, 575 Wilson Ave.
Bklyn; Bracco's, 1304 Eighth Ave.
Bklyn; Braun, 1130 Nostrand Ave.
Bklyn; Cabin, 66 Court St.
Bklyn; Col. O'Riordan, 35 Jerome Ave.
Brooklyn; Camera & Craft, 8023 5th Ave.
Brooklyn; Fix-All-Appliance ,1392 Coney Is.
Bklyn; Gilbert, 2109 Bath Ave.
Bklyn; Hobby, 2222 Coney Island Ave.

BROOKLYN

Authorized Lionel & American Flyer Service Station. HO scale kits and supplies. S, O gauge train accessories

BROADWAY HOBBYCRAFT

1638 Broadway Glenmore 2-8866

Bklyn; Jamie Hardware, 5123—20th Ave.
Bklyn; Jean's Knit, 2369 86th St.
Bklyn; Joy-In Sales, 1609 Broadway
Bklyn; Loonin, 3001 W. First St.
Bklyn; Lourou Sales, 110 De Kalb Ave.
Bklyn; Marchese, 442 Linwood St.
Bklyn; Mercury, 920 Utica Ave.
Bklyn; M-S Trading, 66 Court St.
Bklyn; Meteor, 1454 Flatbush Ave.
Bklyn; Osborn, 338 East 98th St.
Bklyn; Park Hobby, 8120 7th Ave.
Bklyn; Phillip Press, 2208 Ave.
Bklyn; Ruggeris, 4612 New Utrecht Ave.
Bklyn; Sonny's, 3104 Fulton St.
Bklyn; Sol Toubin, 562 Lorimer St.

BROOKLYN

Lionel, Amer. Flyer, O, S, HO, TT kits, accessories. GarGraves trackage—Layouts, Repairs. 9:00 a.m. to 10 p.m.

WALDELL HOBBIES

45 Newkirk Plaza ULster 9-0048

Babylon; Recreation Shop, 26 Railroad Ave.
Bay Shore; Hobby Center, 74 N. Park Ave.
Bay Shore; Hobby Harbor, 130 E. Main St.
Bayside, L. I.; Barco, 211-02 Northern Blvd.
Bayside; Bob & Terry, 4105 Bell Blvd.
Bayside; Barco, 211-02 Northern Blvd.
Flushing; Pleasure Mart, 161-27 Crocheron
Freeport; Nassau, 35 Church St.
Flushing, L. I.; Skips, 177 Union Turnpike
Glen Cove; White, Alice, 7 White
Great Neck; Raymond's, 98 Middle Neck Rd.
Glen Cove; Craft Center, 20 School St.
Hempstead; Allcraft, 37 Greenwich St.
Hempstead; Naturecland, 64 Main St.
Hempstead; Sunrise Pet, 103 Main St.
Hicksville; Boslet's Hobby, 13 Herzog Pl.
Hewlett; Trymo, 1326 Broadway
Huntington; Auto Parts, 215 Main St.
Huntington, L. I.; Harvey, 327 Main St.
Huntington; Sports Shop, 344 N. Y. Ave.
Huntington; De Boo's, 1146 N. Y. Ave.

JAMAICA

Everything in Hobbies. All gauges. Model & Tinplate. Specializing in Repair work. Daily 10 to 8 P.M., Sat. 9 A.M.-8 P.M. Mon. & Fri. 10 to 10 P.M.

JAMCO

(Jamaica Co. Hobbies Inc.)

179-29 Hillside Ave. JA. 3-9140

Jackson Hts; Arcade Asso, 7406 Roosevelt
Jackson Hts.; Racar's 86-18 Northern Blvd.
Jamaica; Herman, 8913 Sutphin Blvd.
Jamaica; J & S Hobby, 168-34 Jamaica Ave.
Jamaica; Hobbies, 179-29 Hillside Ave.
Lauderdale; Wilbur's, 5 Cedar Hill St.
Levittown; Hetros, 2947 Hempstead Tpke
Little Neck; Bike Shop, 252-04 Northern Blvd
Long Beach; Hobby Center, 225 W. Park
Long Island; Mckay Model, 3229 Steinway St.
Long Island; Model Castle, 43-05 Broadway
Lynbrook; Eddie's, 4 Stauderman Ave.
Lynbrook, Trainland, 295 Sunrise Highway
Mineola; Champs, 116 Mineola Blvd.
Patchogue; Handicraft, 156 W. Main St.
Richmond Hill; Foster, 105-14 Jamaica Ave.
Richmond Hill; Stamp Co., 112-08 Liberty
Ridgewood; Nagengast, 68-02 Fresh Pond Rd.
Rockville Center; Spiewak's, 280 Sunrise Hwy,
Rockville Center; Spiewak's, 263 Merrick Rd.
Sag Harbor; Hobby, Whalers Point Boatyard
St. Albans; St. Albans Hobby, 187-24 Linden
Sunnyside; Center Radio, 42-13 Queens
So. Ozone Park; Julius, 140-22 Rockaway
Valley Stream; Hobby, 111 Rockaway Ave.
Westbury; Camera, 276 Post Ave.
West Hempstead; Hobby 544 Hempstead Ave.
Whitestone; Stationery, 14-02 150th St.
Williston Park; Willis, 332 Hillside Ave.
Woodhaven; Hobby, 87-10 Jamaica St.
Woodside; Cve Hobby, 39-84 61st St.
Staten Island; Dick's Model, 47 Westbrook
Staten Island; Hobbyville, 452 Castleton
Staten Island; Hobby, 257 Richmond Ave.
Tottenville; Model, 346 Sleight Ave.
Albany; Ideal, 109 No. Lade Ave.
Albany; Klarsfeld, 67 Hudson Ave.
Albany; Palace, 27 Clinton Ave.
Auburn; Feonsaglio's, 5 Genesee St.
Baldwin; Willeys Hobby, 107 N. Grand Ave.
Binghamton; Bridges Paint, 339 Main St.
Batavia; Genesse, 28-30 Main St.
Binghamton; Bridges Paint, 339 Main St.

Buffalo 15—Frontier Hobbies, Inc.

3183 Bailey Ave. AMherst 8608

Buffalo; Model Distrib., 1463 Genesee St.
Buffalo; House, 746 Tonawanda St.
Buffalo; Model, 1403 Genesee St.
Buffalo; Model Land, 163 W. Ferry St.
Buffalo; North Main, 3142 Main St.
Bufalo; Seneca, 2064 Seneca St.
Buffalo; Spoonley, 37 Choate Ave.

BUFFALO

Visit Buffalo's Pioneer Hobby Shop For Models—Hobbies—Crafts Open daily 9:30-5:30 Except Sun & Wed. Open Fri. nites 'till 9:00

HOWARD E. RUTH

1466 Genesee St. TA 4126-1433

Geneva; Rays, 444 Exchange St.
Glendale; Brauns, 66-58 Myrtle Ave.
Glenwood Landing; Gift, Glenwood Rd.
Hornell; Handicraft, 86 Main St.
Mt. Vernon; Westchester Model, Bx. 127
Niagara Falls; Ace Hobby, 1801 Pierce
Olean; Koeppel's, 182 N. Union St.
Yonkers; Hudson, 44 Morris St.
Corning; Newman's, 112 Bridge St.
Cortland; Model, 6 Chestnut St.
Dansville; Hughes, 159 Main St.
Dansville; Stony Brook Hobby
Deer Park; Mid-Island, Deer Pk. Ave.
Downsville; Retail Hobby, Box 42
Aurora; Hill's, 628 Main St.
Elmira; Bunis, 142 E. Water St.
Elmira; Morrison's, Langdon Plaza
Elmira; Westside, 1260 W. Church St.
Endicott; Tolito's, 9 Washington Ave.
Endwell; Gene's, 3223 1-2 E. Main St.
Geneseo; Sport, 118 Main St.
Geneva; Ray's, 444 Exchange St.
Goshen; Hobby, 144 Murray Ave.
Herkimer; Hobby Shop, S. L. Moser
Highland Falls; Hoffman, 175 Main St.
Homer; Brown, Homer Cortland Rd.
Hornell; Jack's, 86 Main St.
Hume; Hobby Specialties, E. W. Mack
Jamestown; Peerless, 608 N. Main St.
Jamestown; Peersell, 322 Cherry St.
Johnstown; Champlain, 18 N. Market St.
Kenmore; Burd's, 3044 Delaware Ave.
Kingstown; Singer, 71-73 No. Front St.
Lancaster; Biggs, 5433 Broadway
Le Roy; Hardware, 12 Main St.
Malone; Karmelkorn, 60 W. Main St.
Middletown; Middletown Hobby, 19 E. Main
Monticello; Sullivan, 209 Broadway
Mt. Vernon; Model, 18 E. Sandford Blvd.
Mt. Vernon; Zephyr, 128 So. 4th Ave.
Newburgh; Sutherland, 240 Broadway
New Rochelle; Wykagyl, 1321 North Ave.
New Rochelle; Idle Hour, 190 No. Avenue
No. Tonawanda; Schoenfeldt, 314 Schenck
Nyack; Weber's, 5 Cedar St.
Oswego; Aero, 12 E. Bridge St.
Perry; Links, 21 Genesee St.
Plattsburg; Hangar, 36 Clinton St.
Port Jervis; Bruns, 135 Pike St.
Poughkeepsie; Arlington, 889A Main St.
Poughkeepsie; Wolf's, 387 Mill St.

Rochester—Carl's (HO) Train House

1310 Clinton Ave. N. COngress 47-06

Rochester; Craft, 337 University Ave.
Rochester; Gray's, 1390 Culver Rd.
Rochester; Grays Hobbies, 36 Northgate Plaza
Rochester; Edmunds, 675 South Ave.
Rochester; Erwin's Train Shop, 30 Cambria Rd

Rochester—Erwin's Train Shop

30 Cambria Rd. CO 9468

Rochester; Hermans, 283 Driving Pk. Ave.
Rochester; Wickman's, 780 Hudson Ave.

ROCHESTER

SCALE—Tinplate, Lionel Factory & American Flyer
Approved Service. Manufacturers of Gargraves Trackage. Exclusively model railroading equipment.

"TRAIN DOCTOR" GARDNER

2261 Dewey Ave. GLenwood 2847

Schenectady 5, 4 Star Hobby, 120 State St.
Schenectady; Bob's Hobby, 1724 Union St.
So. Glens Falls; Roy's, 78 Saratoga Ave.
South Glen Falls; Hobby Craft, 18 Saratoga
Spring Valley; Rockland, 39 So. Main St.

SPRING VALLEY

Model Railroading—Craft—Boats—Stamps Airplanes—Toys—Artist Supplies
Authorized American Flyer Service Center
Hours: 10 a.m. Mon. through Sat.

ROCKLAND HOBBY & SPORT SHOP

39 South Main St. Cor. Rt. 59

Spring Valley 6-2422

Syracuse; Economy, Mattydale Shopping Ctr.
Syracuse; Elmwood, 1906 South Ave.
Syracuse; Greenwood, 2503 James St.
Syracuse; Guth, 132 E. Genesee St.
Syracuse; Hobby, 585 S. Salina St.
Tonawanda; O'Connor's, 24 N. Niagara St.
Utica; Cornhill, 336 James St.
Valley Stream; Goshco, 1044 Chestnut St.
Warrensburg; Trippies, 10 Gold St.
White Plains; De Witt, Box 102
White Plains; Westchester Toy, 122 E. Post
White Plains; Westchester, 102 E. Post Rd.
Yonkers; McLean, 1016 McLean Ave.
Yonkers; Handy Dan, 228 Riverdale
Yonkers; Hobbies, 444 So. Broadway
Yonkers; Thomas, 25 Ardon Pl.

NORTH CAROLINA

Asheville; Brody's Stock, 2 College
Asheville; Sports Mart, 32 Battery Pk. Ave.
Charlotte; Charlotte Hobby, 131 W. 4th St.

Charlotte—Johney's Hobby House

Fourth & Church Phone 44188

Elizabeth City; Griffin, 606 E. Colonial
Greenville; Bundys, 306 Penna Ave.
Havelock; The Sport Center
Hickory; Sporting, 1212 11th Ave.
Kinston; Bundy's Hobby, 300 E. Caswell St.
Lexington; Conrad's, 20 N. Main
Raleigh; Hobby Shop, Cameron Village
Raleigh; Hobby, 1205 Hillsboro St.
Raleigh; Johnson, 118 S. Salisbury St.
Reidsville; Fix-it, 400 Seales
Roxboro; Brown, 111 N. Main St.
Sanford; Jonesboro, 119 E. Main St.
Statesville; Riddle's, 607 W. Front St.
West Asheville; French's, 775 Haywood Rd.
Winston Salem; Bocock, 4th at Spruce Sts.

NORTH DAKOTA

Minot; Francis, Box 368
Noonan; Louie's, Box 114

Akron; M. O'Neill Co.
Alliance; Hobby Land, 944 E. Ohio Ave.
Barberton; Hobby, 190 Second St.
Barberton; Hobbyland, 196 17 St. No. W.
Bellefontaine; Zane, 401-03 W. Columbus
Bellevue; Hobby, 200 Kelbourne St.
Berea; Gorman's, 46 Front St.
Bucyrus; Rogers Sptg, 221 N. Sandusky Ave.
Bucyrus; Rogers, 912 E. Warren St.
Cambridge; McKee, 1003 Steubenville Ave.
Canton; Hawk's, 533 N. Market Ave.
Canton; Simon, 848 Market Ave. No.
Celina; Iona, 105 S. Main St.
Chillicothe; Hobby Haven, 33 E. 2nd St.
Cincinnati; Brendanour, 529 Main St.
Cincinnati; Don's, 709 Main St.
Willoughby; Do It Yourself, RD 2
Cincinnati; Hobby Center, 3416 Harrison
Cincinnati; Hobby Ctr, 7th & Race Sts.
Cincinnati; Hobby Shop, 5754 Hamilton Ave.
Cincinnati; Hobby, 2547 Woodburn Ave.
Cincinnati; Price Hill, 4938 Glenway Ave.
Cincinnati; Ridge, 6015 Montgomery Rd.
Cincinnati; Sattler's HO Depot, 1510 Cedar
Cincinnati; Walts Hobby, 1008 Delta Ave.
Cincinnati; Westwood, 3041 Harrison Dr.
Cincinnati; Model, 2715 Vine, Corryville
Cleveland; Amuse-U-, 12621 St. Clair Ave.
Cleveland; Ed's, 4865 Turney Rd.
Cleveland; Jaye, 14679-81 Euclid Ave.
Cleveland; John's, 4063 Fleet Ave.
Cleveland; Hobbyville, 10911 Lorain Ave.
Cleveland; Hobby Center, 14112 St. Clair
Cleveland; Mac's Model, 9609 Lorain Ave.
Cleveland; Model, 4506 Lorain Ave.
Cleveland; Model, 3166 W. 25th St.
Cleveland; Nobby-Hobby, 10310 Union Ave.
Cleveland; Red's, 7804 St. Clair
Cleveland; Sayler, 788 E. 185th St.
Cleveland; Sparks, 6405 Union Ave.
Cleveland; Paul's 797 East 152nd St.
Cleveland; Shoker Hobby, 18609 Kinsman

CLEVELAND

Nation's largest, most complete stock of all scale gauges, Lionel, AF Kits, Used, O & HO Custom Built—30,000 parts!
Downtown Cleveland—Mon. till 9 p.m.

THE HOBBY HOUSE, INC.

800 Huron Rd. Cleveland 15, Ohio

Superior 1-3210

Cleveland—Cleveland Crafts Co.

4705 Euclid Ave. HEnderson 2-1333

CLEVELAND

Authorized American Flyer Sales and Service — HO — S — O
Daily 11 to 8 p.m.; Sunday to 2 p.m.

WEST 25th HOBBY and CYCLE

3166 W. 25th St. SH 1-2656

CLEVELAND

Lionel Specialists
Authorized Sales—Service—Parts
New and good used equipment

RIEDEL'S RAILROADIANA

1040 Babbitt Rd. & NYC RE 1-0240

Columbus; Brown, 1638 Glenn Ave.
Columbus; Clintonville, 3230-3232 N. High
Columbus; Hall, 185 S. High St.
Columbus; Hobby Mart, 75 E. Gay St.
Columbus; Hobby Mart, 73 E. Gay St.
Columbus; Tool Rental, High & 10th
Columbus; Whittier, Town & High St.
Columbus; Hobby Harbor, 22 N. 3rd St.
Columbus; Linden, 2458 Cleveland Ave.
Columbus 4; NWorld's, 3243 Watteneaf Rd.
Cuyahoga Falls; Marcum's, 1766 State Rd.
Dayton; Adams, 4200 Oakridge Dr.
Dayton; Baker, 3128 S. Smithville Rd.
Dayton; Model, 1318 Wayne Ave.
Dayton; Goods Hobby, 1729 N. Main St.
Dayton; Hobby Ctr., 1200 N. Main St.
Dayton; Marsden, 1010 Wyoming St.
Defiance; Hobby Den, 503 Fifth St.
East Liverpool; Edwin, Glenmore 1
E. Liverpool; Mike's Hobby, 216 E. Fifth
Elyria; Model, 601 Middle Ave.
Euclid; Riedel, 1040 Babbit Rd.
Findlay; Hobby, 115 S. Main St.
Findlay; Hobby, 201 S. Edith Ave.
Fostoria; L&S Hobby, 641 N. Poplar St.
Fremont; Ziegler's, 324 E. Rawson Ave.
Friendship; Bussa Model R R
Galion; Neal's, 131 Third Ave.
Greenville; Deardoff, 302 Sycamore St.
Ironton; Burns—Toys—Artist Supplies
Kent; E. Beckwith Trains, 235 E. School
Lakewood; Taylor's, 13321 Madison Ave.
Lakewood; Wings, 17114 Detroit St.
Lebanon; Bashfords, 20 E. Mulberry St.
Lima; Owen, 707 Elm St.
Lorain; Hobby Shop, 806 Broadway
Lorain; S'Ply, 734 Broadway
Mansfield; Hobby Center, 134 Park Ave., W.
Mansfield; Hobby, 611½ N. Main St.
Mansfield; Estop's, 232 W. 6th St.
Mansfield; Krupp, 108 N. Walnut St.
Mansfield; Penn, 22 So. Main
Maple Hts.; Treacy, 5142 Thomas St.
Marion; Sandy's, 324 E. Playground St.
Marion; Hinton's Sport, 251 W. Center
Massillon; Al's Hobby, 1323 1st St. N.E.
Lorain; Hobby, 806 Broadway
Middletown; Beatty's, 21 Inglehart
Middletown; Daniel, 511 Shafer
Newark; Anderson's, 11 N. Fourth St.
Newark; Hull's, 29-31 W. Church St.

Niles—Harry's Hobby House

54 E. State St. OLympic 2-5292

North Lima; Wolfgang
Osborn; Ace Model, 331 No. Elm St.
Parma; Sport, 7215 Ridge Rd.
Perrysburg; Mills, 322 Louisiana Ave.
Port Clinton; Connor, 112 W. 2nd St.
Ravenna; Clark, 262 W. Cedar Ave.
Salem; Gordon, 701 E. State St.
Sandusky; Craft, Box 1529
Shaker Hgts; Hobby, 16609 Kinsman Rd.
Shaker Hgts; Nicholls, 3433 Lee Rd.
Shelby; Pittenger's, 15 N. Broadway
Springfield; Swisher, 30 Woodward Ave.
Springfield; Snyder, 325 W. Main St.
South Euclid; Nacy's, 4481 Mayfield Rd.
Steubenville; Hobby, 155 S. 4th St.
Tiffin; Elec. Trains, 246 Jefferson St.
Tiffin; McCadler's, 14 E. Market St.
Toledo; Hines, 621 Madison Ave.
Toledo; Jim's Hobby, 1518 Blandin
Toledo; Star Hobby, 827 Starr Ave.
Toledo; Hobby Center, 702 Madison Ave.
Troy; Trojan, 424 S. Canal St.
Warren; Hobbyland, 1329 Larchmont
Warren; Train, 688 Mahoning Ave.
Waynesville; Willis Hunter, Box 79
Wooster; Treasure, 136 So. Grant St.
Youngstown; Lake Sports, 2206 Market St.
Youngstown; Mester's, 339 W. Federal St.
Zanesville; Hastings, 805 Gilbert St.

OKLAHOMA

Chickasha; Book Exch., 522 Chickasha Ave.
El Reno; Hobby, 315 N. Choctaw
Enid; Hobbyland, 213 N. Independence
Pond Creek; Gale Model Shop
Oklahoma City; Caboose, 1115 N.W. 41st St.
Oklahoma City; Howard Hobby, 3625 N.W. 16th St.
Oklahoma City; Blumhof, 909 N. 34th St.
Oklahoma City; Andy,124 W. Grand
Oklahoma City; Campbell's 1906 Classen
Oklahoma City; Emerald, 2224 S.W. Binckley
Oklahoma City; Nichols, 2340 Dorchester Dr.
Stillwater; Model, 915 Main
Tulsa; Brewster's, 1003 S. Peoria
Tulsa; Hobbycrafts, 1524 S. Harvard
Tulsa; Morrison, 1444-46 S. Lewis
Tulsa; Oil Capital, 702 S. Boston
Tulsa; Hobby, 305 E. Fourth
Wewoka; Dumphin Radio Service, Bx. 1091

OREGON

Albany; Hobby, 331 Lyon St.
Baker; Anderson Stores
Eugene; Brigham's, 858 Pearl St.
Eugene; Magazine Exc., 125 E. 11th
Grants Pass; Lyle's, 237 S.W. "G" St
Hillsboro; Mac's, 607 S. 9th St.
Junction City; Doc Pixit, 685 Ivy St.
Lebanon; Al's Hobby, 43 E. Ash
McMinnville; Tommy's, 711 Third St.
Medford; Sims Cycle, 23 North Fir
Ontario; Westcott, 399 S. Oregon St.
Oswego; Lake Sports, 2200 State St.
Pendleton; Buckeroo, 530 S. Main
Pendleton; Gadwa's, 123 S.E. 2nd St.
Portland; Bob's, 5023 N.E. Union Ave.
Portland; Dicks, 3915 S.W. Dakota St.
Portland; Hobby, 3964 N. Interstate
Portland; Kirby's, 6221 S.E. Milwaukie Ave.
Portland; Gill Co., S.W. 6th & Stark
Portland; Vic's, 1824 N.E. 40th St.
Portland; Cigar, S.W. 6th & Wash. Sts.
Tillamook; Norris, Store—Mr. Norris
The Dalles; Broughton's, 409 Laughlin St.

PENNSYLVANIA

Allentown; Allentown Hobby, 645 Tilghman
Allentown; Bloch's, 22 N. 8th St.
Allentown; Hobbytown, 845 Tilghman
Allentown; Hobby Stahl, 1111 Hamilton St.
Altoona; Shetow's, 1313 12th Ave.
Latbro; Hobby, 11 E. Moreland
Hazelton; Hobby Haven, 128 N. Wyoming
Beaver Falls; Moms Hobby, 703 24th
Bellefonte; Poorman's, 226 W. High St.
Bellevue; Orr's, 10 Hawley Ave.
Bethlehem; Mac's, 315 W. 4th St.
Bloomsburg; Ritter's, 203 W. 8th St.
Bradford; Kerr's, 318 Mechanic St.
Bradford; Ruth Bros, 1001 E. Main St.
Bristol; Model, 1031 Pond St.
Chambersburg; Brand's, 125 S. Main St.
Chester; Brown's, 1242 Providence Ave.
Chester; Musiker's, 818 Morton Ave.
Chester; Marchlik's, 2730 W. 6th St.
Chester; Simmonds, 714 Welsh St.
Clearfield; Hobby, 30 N. 3rd St.
Contesville; Harry's Hobby, 311 E. Lincoln
Collegeville; Richards, Box 62
Collegeville; Richards Hobby, Rt. 422
Coraopolis; Michael's, 507 Mill St.
Croydan; L & S Hobby, 716 A Cedar
Devon; Hobby Shop, Berkley Rd & Grove Ave.
Doylestown; Hobby, 63 So. Main St.
Drexel Hill; Pilgrim Hobby, 1053 Pontiac
Du Bois; Way Office Supply, 9 N. Brady
Duquesne; Stones, 78 N. First
Easton; Bushkill, 348 Bushkill St.
Erie; Don's Model, 2312 Peach St.
Feasterville; Jax Cycle, Bustleton & Dues
Gettysburg; Gilbert's, 230 Steinwehr Ave.
Glenside; Keswick, 344 N. Easton Rd.
Greencastle; Morganthall's, 93 E. Baltimore
Greensburgh; Powder Horn, 14 E. Pgh. St.
Greensburgh; Hobby Shop, 503 Alexander
Greensburgh; Supreme, E. Pittsburgh St.
Grove City; Walter's, 301 So. Broad St.
Hanover; Murphy's, 31 Baltimore St.
Hanover; Strickler's, 512 Broadway
Harrisburg; Hobby, 211 Locust St.
Harrisburg; Russ, 138 N. 17th St.
Harrisburg; Woodcraft, 2004 N. 6th St.
Hatboro; Red Lion, 231 S. York Rd.
Hatboro; Hobby, 11 E. Moreland
Hazelton, Hobby Haven, 128 N. Wyoming
Havertown; Sweet Shop, 2409 Darby Rd.
Heidleberg; Dolores, 412 First St.
Highspire; Knights Hobby, 496 Second St.
Indiana; Dermitts Hobby, 564 Philadelphia
Jenkintown; Hobby Center, Yorkway Place

Johnston—Westmont Hardware

Westmont Shopping Center

Johnstown; Bantley, 701 Van Lonen St.
Johnstown; Buck's, 3314 Washington St.
Johnstown; Ed Wehn, 562 Central Ave.
Kennett; Schmaltz, 113 W. State St.
Lancaster; Felsinger's, Rd. No. 2
Lancaster; Hiersol, 24 E. King St.
Lancaster; Wieland's, 315 No. Queen St.
Lancaster; Witmer, 737 New Holland Ave.
Lansdale; Keiser's, Main & Green Sts.
Lansdowne; Westie's, 17 N. Lansdowne
Lansford; Barney's, 718 E. Ridge
Latrobe; Bill Smith Hobby, 515 Depot
Latrobe; Penn, 515 Depot St.
Laureldale; Steely's, 3400 Kutztown Rd.
Lebanon; Bamberger's, 16 N. 9th St.
Levittown; Hobby, 2 Newportville Rd.
Lewiston; Lon's, 7 Valley St.
Lewiston; Western Auto, 26 Valley
Lock Haven; Bagnell's, 313 No. Grove St.
Manheim; Myer's Hobby, 29 W. Ferdinand
Mansfield; Gamble's, 32 N. Main St.
McKeesport; Hobby, 504 Locust St.
McKeesport; Hobby, 635 5th Ave.
McKeesport; Oddo's, 317 Shaw Ave.
Meadville; B&B Model, 12 Meridian Bldg.
Mechanicsburg; Auto Asso., 25 E. Main
Media; Bill Battey, 18 S. Orange St.
Middletown; Hummert's, 141 W. Emaus St.
Millersburg; Wingard, Market Sq.
Millvale; Hobby, 527 North Ave.
Milton; Frur, 139 So. Front Sq.
Monaca; Merkel's, 1526 Penna Ave.
Morrisville; Dick's Hobby, 243 Stockham
Mt. Wolf; Carroll, Fifth St.
Nazareth; Anglemire's, 40 S. Main
New Castle; Menken's, 114 N. Mill St.
New Cumberland; Model, 211 9th St.
New Kensington; Corner's, 1000 Constitution
Norristown; Bill, 202 W. Main St.
Norristown; Hobby Shop, 417 W. Marshall
Norristown; Ned Salter, 612 W. Marshall St.
Norristown; Hobby, 417 W. Marshall
Oil City; Powell's, 14 W. First St.
Oil City; Venango, South Side
Oil City; Weamp, Box 160
Paoli; Walte, Cedar Hollow Rd.
Philadelphia; Albert's, 5832 Germantown
Philadelphia; Elmwood Hobby, 7116 Elmwood
Philadelphia; Raymond Haring, 3420 N. 6th
Philadelphia; Hill Cycle, 6135 Germantown
Philadelphia; Mack's Hobby, 839 Allegheny
Phila; Albern, 3126 Market St.
Phila; Allied, 6535 Rising Sun Ave.
Phila; Allied, 4804 Frankford Ave.
Phila; Allied, 722 Market St.
Phila; Becker, 46 N. Eleventh St.
Phila; Bicycles, 5815 Woodland Ave.
Phila; Burhanna, 6224 Germantown Ave.
Phila; Chris, 2708 N. Howard St.
Phila; Danes, 2048 N. 7th St.
Phila; Derr, 1114 E. Price St.
Phila; Contino's, 2004 Snyder Ave.
Phila; E and H, 1301 W. Chelten Ave.
Phila; E and H, 7333 Frankford Ave.
Phila; Electronic, 130 W. Chelten Ave.
Phila; Evans, 4355 Frankford Ave.
Philadelphia Gimbels
Phila; Green's, 218 So. 52nd St.
Phila; Hilpwell's, 328 Loney St.
Phila; Germantown, 41 N. 10th St.
Phila; Girard, 924 N. 28th St.
Phila; Hill, 8135 Germantown Ave.
Phila; Hobby, 321 W. Chelten Ave.
Phila; John's Hobby, 2857 N. 5th St.
Phila; Kimballs Cycle, 7035 Franford Ave.
Phila; Laurent, 4903 Catherine St.
Phila; Les Myers, 21 S. 16th
Phila; Losben, 1814 Fitzwater St.
Phila; Mayfair, 7333 Frankford Ave.
Phila; Meyers, 5422 N. 5th St.
Phila; Mercur, 3020 Midvale Ave.
Phila; Northeast, 2303 E. Allegheny Ave.

Philadelphia—Joseph B. Nagrant Hobby

3218 N. Bailey St. BAldwin 9-8714

Phila; Neven, 4713 Longshore St.
Phila; Nevertoy, 4713 Longshore St.
Phila; Ogantz, 7162 Ogantz Ave.
Phila; Olney, 142 W. Linton St.
Phila; Otterstein, 1942 So. 57 St.

PHILADELPHIA

Leading Hobby Railroad Center
Marklin Fleischman, Lionel, AF—Complete line HO kits, accessories
Authorized service station for all trains

NICHOLAS SMITH

60 N. 11th St.

Phila; Reda's, 2640 N. 29th St.
Phila; Stanley, 1720 Frankford Ave.
Phila; Sta Radio, 2530 W. Lehigh Ave.
Phila; Stock, 83 W. Sedgwick
Phila; Snellenburgs Hobby Craft Center
Philadelphia; Tom Thumb, 194 Chestnut

Philipsburg; Sporting, Front St.
Phoenixville; Arb, 243 Bridge St.
Phoenixville; Estabrook, 311 Bridge St.
Phoenixville; J & M Shop, 204½ Bridge
Pittsburgh; Aspinwall, 351 Freeport Rd.
Pittsburgh; Eastwood Hobby, 2812 Robinson
Pittsburgh; Stan's Hobby, 1826½ Brownsville
Pitts; Bill & Walt's, 341 Blvd. of Allies
Pitts; Bill, 341 Blvd. of Allies
Pitts; Charles, 3229 W. Liberty Ave.
Pitts; Clinton, 5813 Penn. Ave.
Pittsburgh; Conklin Radio 1414½ Lincoln
Pitts; Roy's, 200 West View Ave.
Pitts; Wilinsburg, 704 South Ave.
Pittston; Emleton's, 422 Wyoming Ave.
Pottstown; Marquette, 62 Charlotte
Quarryville; Miller, & Jackson
Reading; Haines, 44 S. 6th St.
St. Clair; Arlene's, 15 S. 2nd St.
Sayre; Double, 424 Keystone Ave.
Scranton; Hoby, 315 Spruce Ave.
Scranton; Main Cut, 301 N. Wash. Ave.
Shamokin; Mowery's, 23 S. Market
Sharon; Mihlbaugh's, Thornton Hall
Shillington; Hobby Shop, 423 Brobst St.
Souderton; Metzger, 235 Franklin Ave.
State College; Vonada, 420 S. Burrowes St.
Stroudsburg; Hobby, 625 Main St.
Summit Hill; Arner, 28 W. Ludlow St.
Summit Hill; Hobby, 26 W. Ludlow St.
Swathmore; 105 Dartmouth Ave.
Tamaqua; Paint, 240 E. Broad St.
Towanda; Superior, 405 Main St.
Tyrone; Kennedy Model, 1861 Adams Ave.
Uniontown; Hoby, 36 W. South St.
Upper Darby; Relaxation Shops, 6922½ Market
Upper Darby; Todd's, 7036 W. Garrett
Upper Darby; Warren's, 7057 Garrett Rd.
Warren; Bessett, 1012 West 5th
Washington; Malone, 255 N. Maine St.
Waynesboro; Bailey, 75 E. Main St.
West Chester; Radio, 102 W. Market St.
West Newton; Eries, Main St.
West Reading; Hobby, 546 Penn. Ave.
Wilkes-Barre; Hobby, 159 Barney St.
Wilkes-Barre; Robbin, 28 N. Main St.
Wilkes-Barre; Mooney's, 165 Loomis St.
Wilkes-Barre; Dick's Hobby, 93 S. Main St.

Localized Dealer Service

Wilkes Barre; Mooney's Hobby, 165 Loomis
Wilkinsburg; Model, 704 South Ave.
Williamsport; Stepp's, 246 Pine St.
Williamsport; Bob Tompkins, 7 W. 4th St.
Willow Grove; Snellenburgs Hobby Center
Wind Gap; Bonney, Broadway
York; Burgard, Corn West & Phila. Sts.
York; Checkered, 602 E. Market St.
York; D. I. Gross, 227 South Hartley St.
York; Model Craft, 113 S. George St.

YORK

All nationally advertised kits and supplies HO and S Gauge Specialists
Hours 1 P.M. to 9 P.M.
Sat. 10 A.M. to 9 P.M.

CHECKERED FLAG MODEL SHOP
602 E. Market St. Phone: 34589

RHODE ISLAND

Central Falls; Hobbies, 178 Valley St.
Cranston; Hobby Shop, 53 Rolfe St.
Newport; Vee Bee, 107 Thames St.
Pawtucket; Farrell, 166A Pawtucket Ave.
Pawtucket; Hobby, 52 Roosevelt Ave.
Portsmouth; Stewart, Box 1020
Providence; Grants, 109 Empire St.
Providence; Hobby, 73 Empire St.
Providence; Willey, 77 Exchange Pl.
Westerly; Burdick's, 49 High St.
Woonsocket; Hobby, 161 Cumberland St.

SOUTH CAROLINA

Greenville; Delanys', 24 College St.
Columbia; Hillman's, 1216 Taylor St.
Columbia; Westons, 3308 Millwood Ave.
Spartanburg; Aaron Read, 570 Reidville Rd.
Spartanburg; Hobby, 134 Dunbar St.
Spartanburg; Littlejohn & Sons, 414 W. Main

SOUTH DAKOTA

Aberdeen; Hobby, 112 South Kline
Groton; New Deal
Rapid City; Hobby, 916 Main St.
Rapid City; Hobby,Box 1146
Rapid City; Houk, Spig Goods
Rapid City; House of Hobbies, Villa Ranchaero
Sioux Falls; Anderson's, 116 W. 11th St.
Sioux Falls; Universal Model, 125 W. Tenth
Watertown; Barrattes, 18 N. Broadway

TENNESSEE

Chattanooga; Big 4, 1820 Rossville Ave.
Chattanooga; Certified, 108 E. 7th St.
Chattanooga; Mt. City, 109 S. Kelley St.
Elizabethton; Book Store, 705 E. Elk Ave.
Etowah; Taylor Auto Supply Co.
Jackson, Hobby Center, 309 E. Main St.
Johnson City; Humphrey's, 304 W. Market St
Knoxville; Hobby, 511 W. Clinch Ave.
Knoxville; Le Quire's, 2078 E. 5th Ave.
Lake City; S. Collieries, Store No. 1 Rt. 2
Livingston; United Hobbies—Mr. Jernigan
Memphis; Deanwood, Park Lane
Memphis; Elec. Train, 841 Barbara Dr.
Memphis; Hobby 368 No. Cleveland
Memphis; Sports, 1391 Union Ave.
Mufreesboro; Toy & Hobby, 127 S. Church
Nashville; Austin, 3430 West End Ave.
Nashville; Burk, 416 Church St.
Nashville; Hobby, 427 Deaderick St.
Nashville; Martins', 724 Commerce St.
Oak Ridge; Hobbyland, Central Bus Term.

TEXAS

Amarillo; S. Equip., 411 Fillmore St.
Amarillo; Sport, 2703 Jackson

AMARILLO

A Full line of Lionel — Am. Flyer — HO Trains — Auto, Boats, Planes — kits
Call anytime, day or night

SMITH'S HOBBY SHOP
3805 Tyler Phone: 2-5027

Athens; Jones, 313 Frizzell
Austin; Stautz, 116 W. 5th St.
Canyon; Daniel Morris Parker, Bx. 869
Conroe; Jackson Hardware, Box 227
Corpus Christi, Brown's Hobby, 1406 3r dSt.
Dallas 4, Hall's Hobby, 4823 Bryan
Dallas; Hobby, 209-A West Jefferson
Dallas; Hobbyland, 2307 So. Beckley
Dallas; Hobby Nobby, 1625 Pacific
Edinburg; Toyland, 417 E. Harriman Blvd.
El Paso; Christopher's, 815 Cedar St.
El Paso; H & H Hobbycrafts, 3902 Pershing
El Paso; Lind's, 1710 E. Yandell Blvd.
El Paso; Lowenberg, 2511 Yandell
Ft. Worth; Atlas, 108 E. 6th St.

Fort Worth—Crump's Hobby Corner
300 Main Ed 1343

Ft. Worth; Modelcraft, 3408 A Camp Bowie
Ft. Worth; Navotex, 1126 Penn. Ave.
Ft. Worth; Wellborn, Box 1690
Fort Worth; Tolsons, 3404 Camp Bowie Blvd.
Gainesville; Dustin, 108 E. Calif. St.
Galveston; Isle, 2408 30 St.
Grand Prairie; Henry's, 105 N. Van Buren
Houston; Greenlins, 512 Sue St.
Houston; Hobby, 3403 S. Shepherd Dr.
Houston; Kep-Kraft, 2312 N. Main St.
Houston; G & G Model Shop, 2522 Times Blvd.
Kerrville; Millice, 920 Hillcrest Ave.
Kingsville; Hobbyland, 101 So. 5th St.
Littlefield; Hart-Thaxton
Lubbock; Repairzit, 2144 19th St.
McAllen; Model, 13th & Quinoa
Midland; Hobby Shop, 306 W. Ohio
Midland; Western 123 So. Main St.
Nacogdoches; Cycle, Box 48
Odessa; Holcomb, 1214 W. 10th St.
Paris; Burns Hobby, 128 S. Main St.
Plainview; J B's Hobby, 709 Oakland St.
Randolph Field; Bookstore, Box 93
Rosenberg; Pickard & Higgins, 800 Third
Rosenberg; Pickard & Higgins, Box 512
San Angelo; Wilson, 1423 W. Beauregard
San Antonio; Arnold, 5215 San Pedro
San Antonio; Dibbles', 313 So. Alamo
San Antonio; Jefferson, 206 Broadway
San Antonio; Minicraft, 416 No. St. Mary's
San Antonio; Model, 120 Broadway
Seymour; Radio, Box 323
Sherman; Zimmerman, 429 W. Texas St.
Sweetwater; Phillips, 906 Lamar St.
Terrell; Frazier, 209 N. Virginia

Texarkana—Two State Hobby Shop
821 West Seventh St. Phone 3-7632

Tyler; Harrison's, 206 N. Spring St.
Victoria; Plaza, 107 W. Constitution St.
Waco; Baugh's, 512 No. 25th
Waco; Connolly, James Connolly AFB
Waco; Hobby, 813 Jefferson
Wharton; Russell Rowe, Box 1279
Wichita Falls; Huff's, 916 Scott St.
Wichita Falls; Huffhines, 809 8th St.
Wichita Falls; Hobby, 700A Scott St.
Wichita Falls; Hobby Shop, 1636 McGregor St.

UTAH

Cedar City; Ace, 15 W. Harding Ave.
Murray; United, 5009 Glenn St.
Ogden; Peck's Models, 2428 Kiesel Ave.
Price; Lewis, 46 E. Main St.
Provo; Gessford's, 149 West First No.
Richfield; Sharp, 275 No. Fifth East
Richeld; Sharp, 275 No. Fifth East
Salt Lake City; Douglas, 193 E. Second
Salt Lake City; Hobby, 33 Box 444
Salt Lake City, Sugarhouse, 870 E. 21
Salt Lake City; Zim's, 244 E. 2nd So.

VERMONT

Brattleboro; Perry's, 48 So. Main St.
Burlington; Hobby, 112 Cherry St.
Morrisville; Franklin, 17 Portland St.
St. Albans; No. Industries Inc., Box 390

VIRGINIA

Alexandria; George's, 1131 King St.
Arlington; Molle Hobbies, 4309 Wilson Blvd.

Arlington—Arlington Hobby Crafters
625 North Glebe Road JA 2-6442

Bennington—Western Auto Associate Store
128 North St. Phone 5111

Blacksburg; Western, 300 Main St.
Bristol; Random, 13 Moore St.
Cape Charles; Patterson, Box 89
Culpeper; Book, 159 E. Davis St.
Covington; Hobby, 202 Maple Ave.
Cradock-Portsmouth; Graham's Afton Pkwy.
Danville; Booth, 304 Main St.
Fall Church; Hobby, 131 S. Washington
Falls Church; Liebermann's, 6311 Hallran Rd.
Harrisburg; Martin, Box 6
Hilton Village; Serio, 373 Warwick Rd.
Lynchburg; Basham, 213 9th St.
Newport News; Craftsmen, 3704 Wash. Ave.
Norfolk; Oak Ridge, 6806 Sewell's Point
Norfolk; Zephry, 16 Monticello Arcade

Norfolk—Toy Craft
3904 Granby St. Phone 26043

Portsmouth; Howell, 607 High St.
Richmond; Keel's, 107 N. 2nd St.
Richmond; Marine, 1645 W. Broad St.
Richmond; Rowlett's, 107 E. Broad St.
Roanoke; Jennings, 24 West Church Ave.
Roanoke; Vin's Tram Sales, 436 Marshall, S.W.
Shenandoah; Roudabush, 444 First St.
Winchester; Hobby, 304 So. Braddock St.
Winchester; Model Haven, 140 S. Loudoun St.

WASHINGTON

Anacortes; Western, 1705 6th St.
Bellingham; Golden Rule, 1313 Comm St.
Bellingham; Hobby, 223 E. Holly St.
Bremerton; Hobby, 624 Fourth St.
Bremerton; Modern Home, 2515 Burwell
Bremerton; Rykes & Hobbies, 405 Park Ave.
Centralia; Townsend, 114 S. Tower Ave.
Dallesport; Tru Flite, E. Smithville Store
Dishman; Johanson's, 9123 E. Sprague
Ellensburg; Hobby, 914 E. Capital Ave.
Enumelaw; Payless, 414 Cole St.
Ephrate; Beaudry's Hobby & Cycle Shop
Everett; Hobby, 1818 Hewitt Ave.
Everett; Hobby, 2819 Welmore Ave.

EVERETT

Complete HO—TT—Planes—Boats
"Know-How"

EVERETT MODEL SHOP
(With Coy's Toys)
2605 Colby Ave. Cedar 1216

Ferndale; Hobby Shop, Box 126
Goldendale; Varlety Store—Eddy
Kirkland; Sporting Goods
Longview; Cliff's, 1421 Vandercook Way
Lynden; Hobby, 109 Third St.
Mt. Vernon; Roberts, 724 1st St.
Olympia; Chrystell, 415 Capital Way
Pasco; Woods, 920 W. Lewis St.
Port Angeles; Todd, 125 W. 1st St.
Prosser; Hobbies, First & Main
Prosser; Aircraft, Thompson Box 684
Puyallup; Rice's, 313-315 No. Meridan
Republic; A & R Model Shop, Box 541
Richland; Paul's, 800 G. Washington Way
Ritzville; Hilzer, Box 814
Seattle; Buz-Dougs, Hobby, 701 E. Pike
Seattle; Everett, 311 W. Smith St.
Seattle; Forresters Modelcraft, 2105 N. 45 St.
Seattle, Greenwood, 141 No. 85 St.
Seattle; Hobby Craft, Marche Store
Seattle; Engineering, 9524 Roosevelt Way
Seattle; Hobbies, 21411 Pacific Hwy.
Seattle; Model RR. Ser., 5801 Roosevelt Way
Spokane; Maurie's Shop, The Bon Marche-Palace
Spokane; Pugsley's Hobby Shop, S. 110 Post St
Spokane; Cycle, 217-219 N. Post St.

Spokane—Doc's Model & Hobby Shop
N. 1225 Monroe BR 2165

Sunnyside; Stationery, 528 6th St.
Tacoma; Hobby Ville, 2708 6th
Tacoma; Lincoln, 701 38 St. So.
Tacoma; Model, 917 Commerce St.
Tacoma; Swan's, 1145 Commerce St.
Wenatchee; Hobby, 340 No. Wenatches
Yakima; Summers', 14 East "A" St.
Yakima; Clover Leaf, 10 N. 4th St.

WEST VIRGINIA

Belle; Brownies Model RR, 2001 W. Riverview
Bluefield; Barlow 1238 Bland St.
Bluefield; Nelson, 618 Federal St.
Charleston; Model, 713 Grant St.
Charleston; Hobbycraft, 814 Washington St., E.
Clarksburg; Snyder's, 309 W. Pike St.
Huntington; Nick's News, Box 1986
Huntington; Phillips, 1317 Charleston Ave.
Lewisburg; Greenbrier, Central RR, 315 Bell Dr.
Martinsburg; Hedges, 809 Buxton St.
Parkersburg; Wilson, 326 Juliana St.
Weirton; Weir-Cove, 3348 Main St.
Wheeling; Hobby, 1209 Chapline St.
Wheeling; Kennedy's, 1063 Main St., Box 988
Wheeling; Model, 2701 Jacob St.

WISCONSIN

Appleton; Camera, 215 E. Wisconsin
Appleton; Hobby, 1126 W. Harris
Appleton; Valley, 229 E. College Ave.
Baraboo; Hobby, 105 4th St.
Beavver Dam; Mac's Hobby Shop, 226 S. Spring
Beloit; Brown's, 167 W. Grand Ave.
Elkhorn; Gene's, 323 W. Jefferson St.
Elm Grove; Purdy's Hobby Shop, Legion Dr.
Fond Du Lac; Albert, 173 S. Main St.

Fond Du Lac—Friess Studio & Hobby Shop
27 N. Main St. Phone 5742

Green Bay; Bay Craft, 517 Forest St.
Green Bay; Elec. Train, 905 Doty St.
Green Bay; Electric Train, 220 S. Webster
Janesville; Dicks, 20 S. Franklin St.
Kenosha; Hobby, 7511 Sheridan Rd.
Kenosha; Tyson, 6201 14th Ave.
La Crosse; A & W Center, 1005 LaCrosse St.
La Crosse; Walkers, 1010 S. 16th St.
Madison; Badger, 409 E. Main St.
Madison; Monroe Sport, 1805 Monroe St.
Madison; University, 648 State St.
Manitowoc; Model, 938 So. 19th St.
Manitowoc; Toy Shop, 933 S. 8th St.
Marshfield; Sherman's, 406 S. Peach Ave.
Menasha; Hobbies, 5 Main St.
Menomonie; Del & Otto's, 501 Broadway
Milwaukee; Al's, 2725 W. North Ave.
Milwaukee; Auler, 159 N. Broadway
Milwaukee; Benz, 320 E. Silver Spring Dr.
Milwaukee; Brown Elec., 3889 N. Pt. Wash.
Milwaukee; Garfield Cycle, 2971 N. Third
Milwaukee; Grace's, 1812 W. Atkinson Ave.
Milwaukee; Hobbyland, 2504 S. Howell Ave.
Milwaukee; Garman's, 8214 W. National Ave.
Milwaukee; Mace's, 919 N. 3rd St.
Milwaukee; Model, 3308 W. Lisbon Ave.
Milwaukee; Mueller's, 5240 N. 35th St.
Milwaukee; Ramstack's, 723 N. Milwaukee St.
Milwaukee; Walthers, Milwaukee Term. Bldg.
Milwaukee; Wisc. Hobby, 1743 W. Fond Du Lac
Milwaukee; Wisniewski, 2131-33 S. Kinnickinn

Neenah—Hobby Craft Shop
115 E. Wisconsin Phone 2-9191

Oconomowoc; Anderson Appliance, 128 N. Main
Oshkosh; Hobby House, 51 Main St.
Oshkosh; Nolte, 417 Oregon St.
Racine; Don's, 1248 State St.
Racine; Toy, 1509 State
Sheboygan; Lea's, 1030 N. 4th
Sheboygan; S. Drug, 814 Indiana Ave.
Stoughton; Hobby, 310 E. Main St.
Superior; Andy's Hobby, 1715 Benknap St.
Wausau; Hobby, 203 First St.
Wauwatosa; Hobby Hut, 6719 W. North Ave.
Wauwatosa; Storma, 7510 W. State St.

West Allis—Garman Radio & Hobby Shop
8214 W. National Ave. GR 6-1412

West De Pere; Rabideau, 320 Main Ave.

WYOMING

Casper; Berlets, 128 S. Wolcott
Cody; Hobby, 1014 Tenth St.
Laramie; Albany Western Mercantile, 208B Gr
Laramie; Beckman's, 217 Grand Ave.
Rawlins; Sugar Bowl, 309 W. Cedar
Sheridan; Model, 639 Marion St.

ALASKA

Anchorage; Kohli, Box 959
Anchorage; Kohli's Kraft, Box 959

T. H.

Honolulu, Boys Towne, 1343 Beretania St.
Honolulu; Cyrils Hobby, 1208 Ninth

ARGENTINA

Buenos Aires; Hobby Shop, Cordoba 2965

BELGIUM

Antwerp; Bockhandel Van Den Bosch 1,
St. Jacobsmarkt 1

SWEDEN

Stockholm; Sven Wentzel Modelplanfabrik
Apelbergsgatan 48

CANADA

Belleville, Ont.; Dough's Hobby, 338 Pinnacle
Brantford Ont.; Hobby, 51 George St.
Calgary Alberta; Hobby, 623A 8th Ave. W
Edmonton; Uncle Johns Hobby, 10123 11 A
Calgary, B. .; Uncle Johns Hobby, 130 7th E
Edmonton; Moro Craft Hobby, 10654 82 Ave.
Goderich; Al Linfield's Sporting Goods
Hamilton; Hobby, 922 Barton St. E.
Hamilton, Ont.; Andys. 201 Walnut St.
Hamilton, Ont.; Loubill, 1321 Main St., E.
Hamilton; Riley Hobby, 755 King
Kenora Ont.; Melville, North Star Dock
London; Gurd, 185 Dundas St.
London; Hobby, 347 Talbot St.
London Ont.; Marine, 229 Norton St.
London; Rodgers, 602 King St. E.
Montreal; Ben's Model Shop, 1350 Green Ave
Montreal; Camera & Art Shop, 808 Jean Talon
Montreal; Richard Nouveautes, 7901 Berri
Montreal; Trainatorium, 1225 University
Montreal; Westmount Hobby, 4926 Sherbrooke
Ottawa, Ont.; Hobbyland, 236 Slater
Ottawa, Ont.; Dover's, 187 Sparks
Ottawa, Ont.; Hobby House, 239 Rideau St.
Ottawa, Ont.; Model RR Assoc., 308 Laurier
Pictou; Community Hardware Ltd.
Port Arthur, Ont., Green's, 196 S. Algoma St.
Preston; Dee Bee, 1324 King St.
Quesnel; Wears Sporting Goods
Regina Sask; Hobby, 2438 11th Ave.
St. John; Covey, 85 Germain St.
Sioux Lookout; Forbes, 84 King St.
St. Catherines; Grimwood's, 13 Rosedale
Toronto; Burden's, 114 Dundas St.
Toronto; Camera Shop, 3453 Longe S
Toronto; Canadian Hobby, 1635 Eglinton, W.
Toronto 9, Ont.; Academy, 2622 Eglinton Ave.
Toronto, Ont.; Burden's Hobby, 2311 Yonge St.
Toronto; Hobby, 95A King St. West
Toronto, Leonard's, 4098 Bayview Ave.
Toronto, Hobby Shop, 35 Tamarac Ave.
Toronto; Model, 66 Wellington St.
Toronto; Models, 2203 Bloor St. W
Toronto, Ont.; Harold Speaker, 1852 Danforth
Toronto, Ont.; Pioneer, 973 Coxwell St.
Toronto, Ont.; St. Clair, 625 St. Clair Ave.,
Toronto, Ont.; Toronto Hobby, 1070 Danforth

LONDON, ONTARIO

Modell Railroad and Hobby Supplies
Planes — Boats — Cars — Hobby Tools,
Special orders taken.
Hrs. 9-6; Eves. 2-3094

FRANK THOMPSON
MODEL SUPPLIES
347 Talbot St. Dial 2-3094

Toronto; Wallace; 2387 Yonge St.
Vancouver; Uncle John's, 550 W. Georgia
Vancouver; Hobby, 44 Kingsway
Vancouver; Hobby, 658 W. Georgia
Vancouver; Model, 2193 W. Broadway
Victoria; Western, 2033 Albina St.
West Vancouver; Capilano, 828 Park Royal
Winnipeg; Sheane & Son, 229 Portage
Winnipeg; St. John, 550 Portage Ave.
Winnipeg; Sheane, 74 Chestnut St.
Walkerville Ont.; Fox, 793 Argyle Rd.
Windsor; Cock Bros., 340 Pitt St. East
Windsor; Janisse, 2017 Wyandotte St., W.
Windsor; Model, 545 Josephine Ave.

PUERTO RICO

San Juan: Exide Battery, 300 Fern. Juncos

MEMO:
To All Readers

This Railroad Model Craftsman dealer section is designed to acquaint you with your local hobby supplier, whereever you might travel. It is the most complete dealer listing ever published . . . every effort has been made to make it complete and accurate. For the benefit of our other readers, if your local hobby supplier is not included on any of these pages, please send his name and address to:

Dealer Editor
RR Model Craftsman
Ramsey, New Jersey

RAILROAD MODEL CRAFTSMAN

TO SUPPLY YOU WITH THE LATEST AND BEST IN MODEL SUPPLIES

IT MEANS BETTER HOBBY SERVICE FOR YOU

MODEL & HOBBY INDUSTRY MAGAZINE 1955 APPROVED DEALER

Dealer! for a free sample copy write to:

CRAFT, MODEL and HOBBY INDUSTRY
30 East 29th Street
New York 16, N. Y.

WHEN IN THE Pennsylvania Dutch Country DON'T MISS "Roadside America" 300 Years of American Life in Miniature

We are now open in our new location with a larger, greater and more beautiful display than ever before—with many new attractions never seen in miniature displays before. Over 6,000 gallons of water flowing in streams each hour! Mountains 15 feet high! A sight never to be forgotten.' Send for colored folder. You can travel here by bus with East or West—see your Travel Agent. Traveling on Penna. Turnpike East—be sure to turn north at "Harrisburg *East Shore* Exchange" to 22—see map.

You will be amazed—be prepared to see more than you expect. Started in June 1903; now celebrating our fiftieth anniversary! Fifty years in the making by one man and family!

Picnic Grove, Zoo and Trails in the Woods

Open every day from
9 a.m. to 10 p.m.

ALSO, VISIT OUR PENNSYLVANIA DUTCH GIFT HAUS

One of the most exclusive gift houses in country. On U. S. Route 22, between Allentown & Harrisburg, Pa. 8 miles west of Hamburg.

Make
RAILROAD MODEL CRAFTSMAN
your shopping guide.

NEW-TYPE PERMANENT BINDER

for Railroad Model Craftsman

- Do your own binding in minutes
- Easy to follow instructions
- Hacksaw and handy holder included with first purchase
- Opens as flat as a bound book
- Durable, maroon imitation leather cover
- Stamped with name, year, volume number
- Monthly issues may be removed if desired
- Holds 12 issues

Single binder $3.50 each
Two or more $3.00 each
Postage prepaid in U. S.
Foreign Countries extra.

ORDER TODAY—SATISFACTION GUARANTEED

Suckert Loose-Leaf Cover Co.
234 W. Larned St.
Detroit 26, Michigan

Enclosed find $..... Please send me ..... binders for RAILROAD MODEL CRAFTSMAN for volume ..... I understand if they are not satisfactory, I can return them for refund within ten days.

Name .....

Address .....

City ..... Zone..... State.....

Index to Advertisers

A
Action Models 57
All-Nation Hobby Shop 33
America's Hobby Center ..... 6, 7 & 9
All Canadian Model Supplies 51
Athearn Models 37
Atlas Tool Co. 53
Ayres Scale Models 42

B
Baldwin Locomotive Works 4
Bergen Electric Products Co. 10
Binkley Models 44

C
Central Valley 44
Corr's Nations Hobby Supply 47
Craft, Model & Hobby Industry 66
Custombilt Models Co. 52

D
Dance, Sherman 57
Delaware Valley Hobby Shop 42

F
Floquil Products 56
Fowler, D. 4

G
Gardner, E. A. 36
Gilbert, A. C. HO 59
Gilbert, A. C. S 43
Greenwich Publishers 57

H
Herkimer Tool Co. 50
Herman Enterprises 4
Hi-Ballers Corp. 10
Hi-Quality 57
Hobby House 2
Hobby Depot 51
Hobo Shop 46
H. P. Products 57

I
International Models, Inc. 12

K
Kadee Metal Products Co. 44
Ken Kidder 33

L
Lee, Richard A. 33
Lionel 45
Lobaugh, R. W. 12
L. W. Models 46

M
McMinis, Robert M. 57
Mantua Metal Products Co. 35
Model Die Casting Co. 5
Model Engineering Works 8
Model Rail Depot 24

N
National Model Distributors 56

P
Pacific Fast Mail 36
Pactra Chemical Co. 24
Penn Publications 54, 66
Perma Bilt Models 44

R
Roberts Enterprises 57
Rosenfield, Geo. 10

S
Sattler's HO Depot 33
Schopp, Bill 46
Schorr, Fred E., Jr. 46
Selley, Inc. 42
Special Shapes 50
Stewart Lundahl Co. 10
Suckert Loose Leaf Co. 66

T
Thomas Industries ..... 8, 48 & 49
Trost Models 46
Tru-Scale Models 51
Trader Same 44

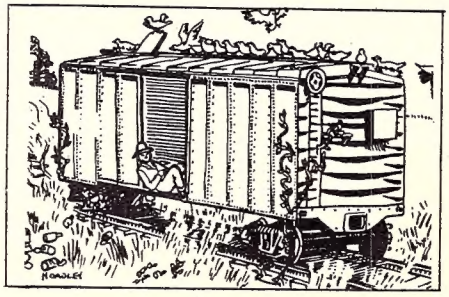
U
Ulrich, C. J. Co. 4

V
Vavrinek, L. 24

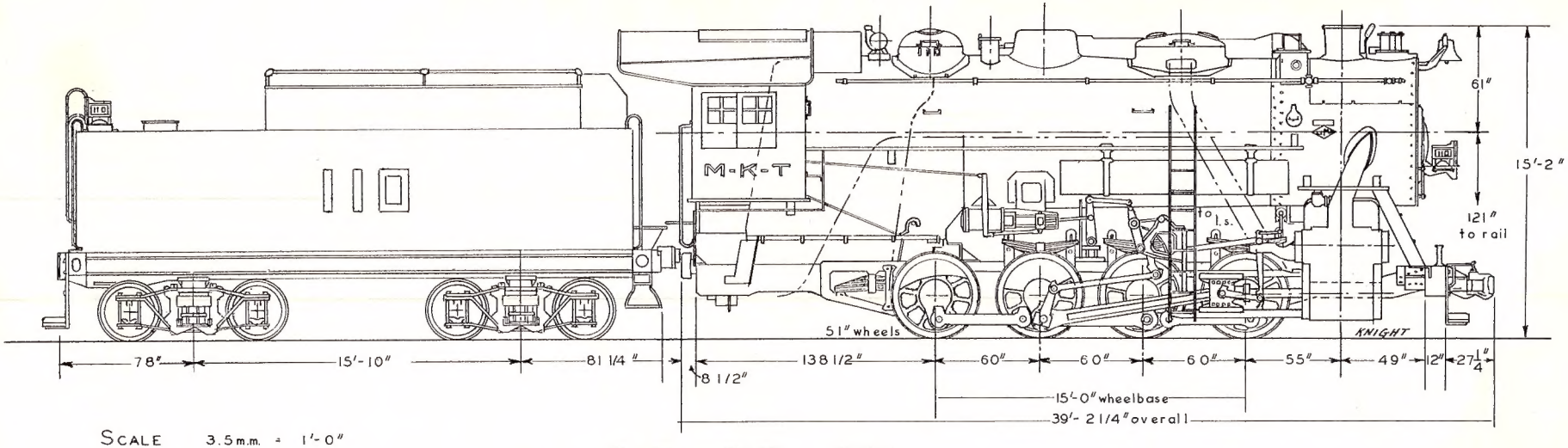
W
Wagner Car Co. 33
Watson HO 51
Wesley Mfg. Co. 46

X
X-Acto Crescent Products 24

Z
Zimmer Scale Models 44



Printed in U. S. A.



SCALE 3.5m.m. = 1'-0"

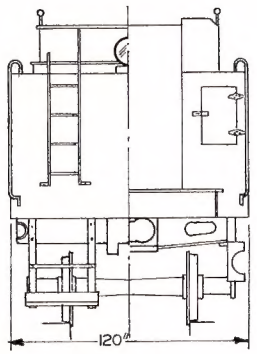
FULL SIZE H-O GAUGE

M-K-T

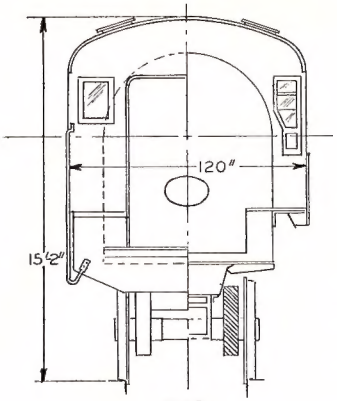
MISSOURI - KANSAS - TEXAS

0-8-0 SWITCHER

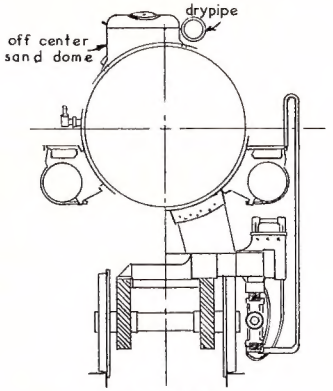
BUILT- LIMA ROAD NOS. 101-110



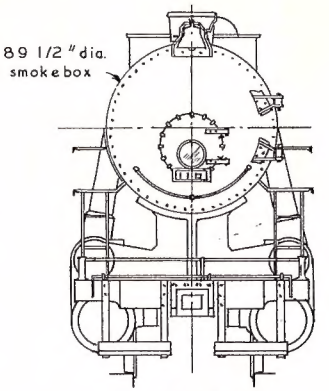
TENDER
REAR FRONT



CAB
REAR FRONT



SECTIONS



FRONT

Only CUSTOMBILT Gives HO Operator

..... Proudful Ownership of a .....

CLASS 1 RAILROAD

★ Superior Construction
★ Precision Assembly

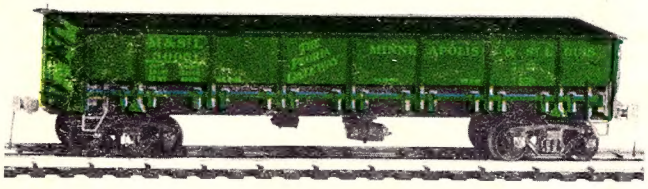
★ Long Lasting Beauty
★ Trouble-Free Operation

..... The Only HO Train Set With All-Metal Cars .....

OUTWEARS
OUTPERFORMS

"500" Super Speed Freight Set
$44.95
Custombilt Pacer Pack
Also Available

The meticulous craftsmanship that goes into the construction of all units of the Redi-To-Roll-Line is unexcelled. Individual parts of each rugged car are affixed with precision—right down the assembly line to where controlled spraying produces authentic railroad colors.



Typical of realism and glamour is this flashy gondola with 8 operating doors

Exclusive with Custombilt are accurately detailed Kadee couplers and fully-sprung trucks not found in any other all-metal freight system. Save time and money? You actually pay less than $1.00, per car, over the retail kit price for this trouble-free HO train set of your own.

Box car with intricate ribbings shows extent of faithful prototype reproduction

CUSTOMBILT MODELS CO.
BOX 474
HO-HO-KUS, N. J.